EXAMINATION NO.: ______________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

AGRICULTURE

Subject Number: M012/I

Monday, 3 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)
Theory

896

Instructions

1. **This paper contains 11 printed pages. Please check.**
2. This paper has **two** sections, **A** and **B**. Section **A** has **ten** questions and Section **B** has **three** questions.
3. Answer **all** questions in the spaces provided.
4. Write your **Examination Number** on all pages in the spaces provided.
5. In the **Table** provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
1			
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Turn over

Section A (70 marks)

Answer **all** questions in this section in the spaces provided.

1. a. Name any **two** insect pests that attack mangoes.

____

____

(2 marks)

b. Describe any **one** agricultural marketing problem faced by farmers.

____

____

____

(2 marks)

c. State any **two** ways in which observation of safety rules when using a hoe is important.

____

____

(2 marks)

d. Explain any **one** way of dealing with gender biases in livestock production.

____

____

____

____

(2 marks)

e. State any **two** ways in which computer technology increases crop production.

____

____

(2 marks)

Continued/...

2. a. Explain **one** way in which each of the following economic principles affect farmers' decision making:

(i) Opportunity cost

____

____

____

____

(2 marks)

(ii) Substitution of inputs

____

____

____

____

(2 marks)

b. Explain any **two** challenges of running agricultural cooperatives.

____

____

____

____

____

____

____

____

(4 marks)

Continued/…

3. a. Table 1 shows one type of cropping systems recommended for high crop production.

Table 1

	Year 1	**Year 2**	**Year 3**
Plot A	Groundnut	Maize	Cotton
Plot B	Maize	Cotton	Groundnut
Plot C	Cotton	Groundnut	Maize

(i) Name the cropping system.

____

(1 mark)

(ii) Explain any two ways in which the cropping system would promote maize yield.

____

____

____

____

____

(4 marks)

b. Explain any two ways in which poor farming practices promote soil loss.

____

____

____

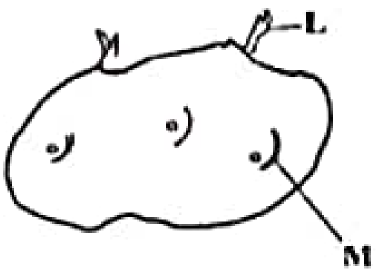
____

____

(4 marks)

Continued/

4. The **figure below** is a diagram showing a vegetative planting material.



a. Name the parts labelled **L** and **M**.

L:____ **(1 mark)**

M:____ **(1 mark)**

b. Explain any **two** disadvantages of using the vegetative planting material.

____

____

____

____

(4 marks)

5. a. Explain any **one** effect of soil colour on mango production.

____

____

____

(2 marks)

b. Describe any **two** ways of adapting climate change in crop production.

____

____

____

____

(4 marks)

Continued/...

6. a. State any **two** ways in which knowledge of oestrus cycle of a cow is important to a farmer.

(2 marks)

b. State any **two** ways in which proper feeding of beef cattle is important.

(2 marks)

7. a. State any **two** uses of partial budget.

(2 marks)

b. State any **two** roles for each of the following marketing agencies:

(i) Middlemen

(2 marks)

(ii) Retailers

(2 marks)

Continued/...

9. a. **(Continued)**

(iii) Calculate the range in body mass for the two animals.

(2 marks)

b. Describe any **one** problem associated with farm mechanisation.

____

____

(2 marks)

10. a. State the **three** principles of conservation agriculture.

____

____

____

(3 marks)

b. Explain any **two** ways in which application of lime to the soil helps to improve its fertility.

____

____

____

____

(4 marks)

Continued/...

Section B (30 marks)

Answer all the **three** questions in this section. Your answers should be in an essay form.

11. Explain any **five** ways in which crop processing is important.

(10 marks)

Continued/...

12. Describe any **five** ways in which agricultural development agencies are important to the growing human population.

(10 marks)

Continued/...

13. Farmers in a certain village have the following agricultural resources at their disposal:

- A lot of herbage during rainy season.
- Swampy area
- A lot of cattle

Explain any five ways in which the farmers in the village would use the available resources to ensure increased livestock production.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 11 printed pages.

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

BIOLOGY

Subject Number: M022/I

Tuesday, 4 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

Theory

(100 marks)

Instructions:

1. **This paper contains 12 printed pages. Please check.**
2. Before you begin, **write** your **Examination Number** at the top of each page of the question paper.
3. This paper has **two** sections, **A** and **B**. Section **A**, has **ten** questions and Section **B** has **three** questions.
4. Answer **all** the 13 questions in the spaces provided. The maximum number of marks for each answer is indicated against each question.
5. In the table provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in this section in the spaces provided.

1. a. State any **two** functions of tissue fluid.

____

____

____

(2 marks)

b. Explain any **one** way which helps lymph to flow in a human body.

____

____

____

____

(2 marks)

c. Explain any **two** functions of the lymphatic system.

____

____

____

____

(4 marks)

d. Describe any **two** problems associated with biotechnology.

____

____

____

____

____

(4 marks)

Continued/…

2. a. **Figure 1** is a diagram of a mitochondrion.

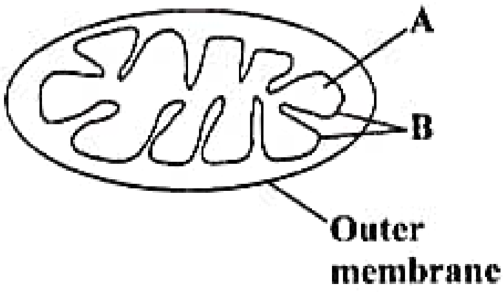

Figure 1

(i) Identify the part labelled **A.**

____

(1 mark)

(ii) Explain the function of the part labelled **B.**

____
____
____
____
____

(2 marks)

b. Mention any **two** sex linked traits in human beings.

____
____
____

(2 marks)

Continued/…

3. a. Mention any **two** limitations of quadrant method in estimating plant population.

(2 marks)

b. Describe any **two** ways in which energy flows in an aquatic ecosystem.

(4 marks)

c. Describe **one** cause of variations in organisms.

(2 marks)

Continued/…

4. a. Mention any **two** pigments found in a leaf.

____

(2 marks)

b. A form three student developed high fever, wheezing and chest pains after attending to a meeting in an overcrowded hall.

(i) Name the disease that the student suffered from.

____

(1 mark)

(ii) Name the causative agent of the disease named in b (i).

____

(1 mark)

(iii) Give any two ways of controlling the disease.

____

____

____

____

____

(2 marks)

c. Describe the effect of low level of Anti Diuretic Hormone to the amount of urine produced in the human body.

____

____

____

____

____

(2 marks)

423

0072

Continued/...

5. a. **Figure 2** is a diagram of a chloroplast.

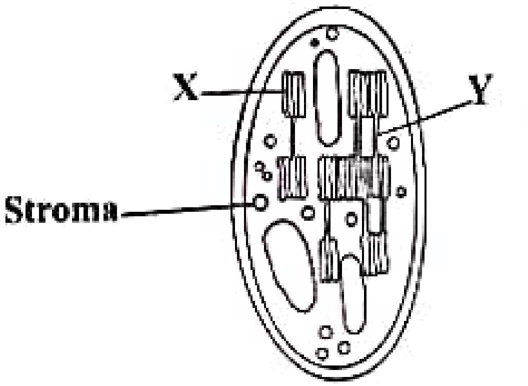

Figure 2

(i) Mention the parts labeled **X** and **Y**.

X: ____________________________ **(1 mark)**

Y: ____________________________ **(1 mark)**

(ii) State the function of the stroma in the structure.

____

(1 mark)

b. Explain any **two** ways in which photosynthesis is important.

____

____

____

____

____

____

(4 marks)

Continued/...

6. a. Give any **two** differences between reptiles and amphibians.

Reptiles	**Amphibians**

(2 marks)

b\. Describe any **one** adaptation of mammals to locomotion.

____

____

____

(2 marks)

c\. **Table 1** below shows traits of identical twins **A** and **B** that were separated after birth.

Table 1

Trait	**A**	**B**
Height	1.2	1.7
Body mass	4.1	9.9
Head length	2.9	2.2
Intelligence	3.1	6.0
Head width	2.6	2.9

(i) Identify each of the following:

1. Trait with biggest difference.

____

(1 mark)

2. Trait with smallest difference.

____

(1 mark)

(ii) What type of variation is displayed in the **Table**?

____

(1 mark)

Continued/...

6. c. **(Continued)**

(iii) Give a reason for the answer in c (ii).

____

____

____ **(2 marks)**

7. a. Mention **one** organ in fish which is used for each of the following in locomotion:

(i) pitching:______________________________ **(1 mark)**

(ii) sinking: ______________________________ **(1 mark)**

b. Explain any **two** ways in which diffusion is facilitated in the dialysis machine.

____

____

____

____ **(4 marks)**

8. A man went into the field to fetch firewood. Suddenly he saw a snake. He immediately jumped and ran away.

a. From the situation given above, identify the following:

(i) stimulus: ______________________________ **(1 mark)**

(ii) response: ______________________________ **(1 mark)**

b. Which characteristic of living things was displayed by the man?

____ **(1 mark)**

Continued/...

8. **(Continued)**

c. Mention **two** effector organs that were involved in the man's response to the sight of the snake.

____

____

(2 marks)

9. a. Give any **one** reason why blood in the arteries move at a high pressure.

____

____

(2 marks)

b. Give the advantage of arteries having each of the following properties:

(i) thick muscular walls

____

____

(1 mark)

(ii) narrow lumen

____

____

(1 mark)

c. Give any **one** similarity between arteries and capillaries.

____

____

(1 mark)

10. a. State any **two** ways in which the physical component of an ecosystem affects diversity of organisms.

____

____

(2 marks)

b. How does a venus flytrap protect itself from predators? Give **three** points.

____

____

____

(3 mark)

Continued/...

Section B (30 marks)

Answer **all the three** questions in this section. Your answers should be in an essay form.

11. Explain any **five** ways in which first line defence works.

(10 marks)

Continued/…

12. Describe any five adaptations of human male reproductive system to its function.

(10 marks)

Continued/…

13. Explain any **five** functions of the liver in relation to digestion.

(10 marks)

423

0072

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

CHEMISTRY

Subject Number: M038/I

Wednesday, 12 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Theory

Instructions

1. **This paper contains 12 printed pages. Please check.**

2. Write your **Examination Number** at the top of each page of this question paper.

3. This paper contains two sections, **A** and **B**. In Section **A** there are **ten** short answer questions while in section **B** there are **three** restricted essay questions.

5. Use of scientific calculator is allowed.

6. The maximum number of marks for each answer is indicated against each question.

7. In the table provided on this page, tick against the number of the question you have answered.

8. Hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in this section in the space provided.

1. a. **Table 1** shows the formulae and boiling points of two compounds: **A** and **B**.

Table 1

Compound	Formula	Boiling point (°c)
A	$MgCl_2$	1418
B	CH_4	-161

(i) In which form does compound **A** and **B** exist at room temperature?

A: ____________________ **(1 mark)**

B: ____________________ **(1 mark)**

(ii) Give a reason for your answer in **1 a. (i)**.

____

____________________ **(1 mark)**

b. Give any **three** reasons why the boiling point of compound **A** is very high than the boiling point of compound **B**.

____

____

____________________ **(3 marks)**

c. (i) Which compound would dissolve in a polar solvent?

____________________ **(1 mark)**

(ii) Explain your answer in **1 c. (i)**.

____

____________________ **(2 marks)**

Continued/…

2. a. State any **two** major sources of wastes.

____

____

(2 marks)

b. Give any **two** advantages of incineration.

____

____

(2 marks)

c. Describe a test that can be done to show the presence of oxygen gas.

____

____

____

____

(4 marks)

3. a. Give any **one** source of sulphur.

____

(1 mark)

b. Why is it that nitrogen:

(i) reacts with burning magnesium?

____

____

(2 marks)

(ii) do not react with burning sulphur?

____

____

(2 marks)

c. Give any **three** uses of phosphorous.

____

____

____

(3 marks)

Continued/...

4. a. Describe any two chemical properties of alkanals.

____

____

____

____

(4 marks)

b. Give any two uses of alkanals.

____

____

(2 marks)

c. Mention any three tests that can be used to distinguish propanal from propanol.

____

____

____

(3 marks)

5. a. Define the term esterification.

____

____

(1 mark

b. Given the following equation of a chemical reaction:

$$CH_3CH_2OH\,(l) + CH_3COOH\,(aq) \xrightleftharpoons{\text{Concentrated. } H_2SO_4} X + H_2O($$

(i) Identify product **X**.

____

(1 mark

(ii) What is the role of the concentrated H_2SO_4?

____

____

(1 mark

Continued/.

6. **Figure 1** shows a structure of an organic compound.

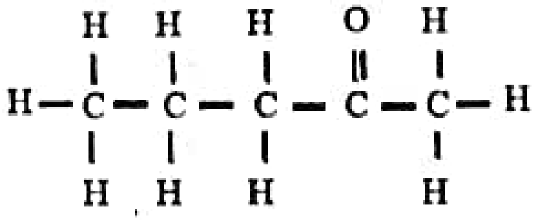

Figure 1

a Name the organic compound shown in **Figure 1**.

(1 mark)

b. Draw any **one** structure of isomers of the compound.

(2 marks)

c. Explain the difference between conformers and isomers.

(2 marks)

Continued/…

7. a. **Figure 2** shows an activity series table. Use it to answer questions that follow.

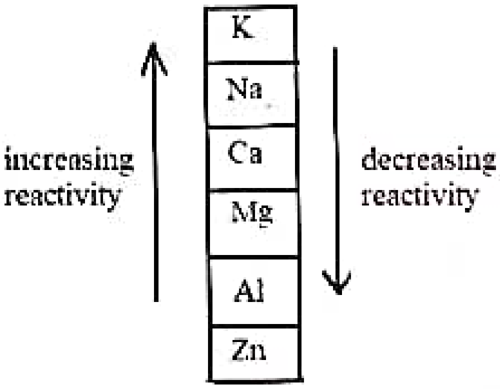
K
Na
Ca
Mg
Al
Zn
increasing reactivity
decreasing reactivity

Figure 2

(i) Why is potassium more reactive than zinc?

____

____

____

(2 marks

(ii) Identify any **two** metals that can displace magnesium from its chloride solution.

____

____

(2 marks

b. (i) Give any **two** examples of endothermic processes.

____

____

(2 mark

(ii) Given the following equation:

$NH_4^+ (aq) + H_2O (l) \rightleftharpoons H_3O^+ + NH_3 (g)$, identify

1. conjugate acid ______________________ **(1 marl**

2. conjugate base ______________________ **(1 marl**

Continued/.

6. **Figure 1** shows a structure of an organic compound.

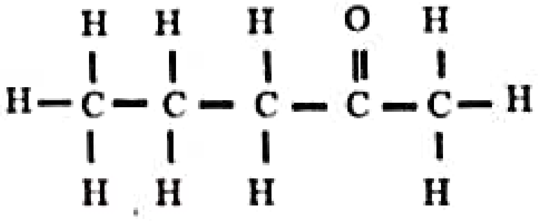

Figure 1

a Name the organic compound shown in **Figure 1.**

____

____

(1 mark)

b. Draw any one structure of isomers of the compound.

(2 marks)

c. Explain the difference between conformers and isomers.

____

____

____

____

(2 marks)

Continued/…

7. a. **Figure 2** shows an activity series table. Use it to answer questions that follow.

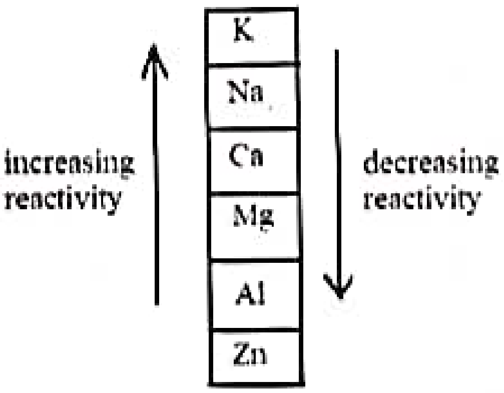
K
Na
Ca
Mg
Al
Zn
increasing reactivity
decreasing reactivity

Figure 2

(i) Why is potassium more reactive than zinc?

(2 marks

(ii) Identify any two metals that can displace magnesium from its chloride solution.

(2 marks

b. (i) Give any **two** examples of endothermic processes.

(2 mark

(ii) Given the following equation:

$NH_4^+(aq) + H_2O(l) \rightleftharpoons H_3O^+ + NH_3(g)$, identify

1. conjugate acid ____________________ **(1 mar**
2. conjugate base ____________________ **(1 mar**

Continued/

8. a. Sodium metal reacts with copper (II) sulphate solution to give sodium sulphate solution and a precipitate of copper according to the following equation:

$$2Na\,(s) + CuSO_4\,(aq) \longrightarrow Na_2SO_4\,(aq) + Cu\,(s).$$

(i) Write down an oxidation half equation for the reaction.

(2 marks)

(ii) Identify a reducing and oxidising agent for the reaction.

Reducing agent: ______________________________ **(1 mark)**

Oxidising agent: ______________________________ **(1 mark)**

b. **Table 2** shows bond energies for some chemical bonds.

Table 2

Bond	Bond energy (KJ/mol)
C = C	611
C – H	413
C – C	346
H - H	436

Calculate the enthalpy change for the following reaction:

$$C_2H_2\,(g) + H_2\,(g) \longrightarrow C_2H_6\,(g)$$

(5 marks)

Continued/...

9. a. Give any one health benefit of hard water.

____

____

(1 mark)

b. Write any two effects of water pollution.

____

____

(2 marks)

c. Explain any two effective measures of controlling water pollution.

____

____

____

____

(4 marks)

10. a. State any two problems associated with the depletion of ozone layer.

____

____

(2 marks)

b. Give any two uses of chambers in the laboratory.

____

____

(2 marks

Continued/.

Section B (30 marks)

Answer **all** the questions in this section in the spaces provided.

11. With the aid of well labelled diagrams, describe the difference between thermosoftening plastics and thermosetting plastics.

(10 marks)

Continued/…

12. a. Describe the process of removing water hardness using distillation.

(5 mark

b. With the aid of a well labelled diagram, describe the procedure of refining impure copper using electrolysis.

(5 mark

Continued/.

13. a. With the aid of well-balanced chemical equations, describe the **Ostwald process** of preparing nitric acid, HNO_3.

(6 marks)

Continued/...

EXAMINATION NO.:_______________

THE MALAWINATIONAL EXAMINATIONS BOARD

2023MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/II

Tuesday, 4 July

Time Allowed: 1h 45 min
11:00 – 12:45 pm

PAPER II

(60 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. The paper has **two** sections: **A** and **B.**
3. Answer **all** questions in **both** sections.
4. Use the spaces provided to answer questions in this paper.
5. Follow the instructions for each section carefully.
6. Write your **Examination Number** at the top of each page of the question paper.
7. In the table provided on this page, **tick** against the question number you have answered.
8. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick questions 1 & 2 if answered	Do not write in these columns	
1			
2			

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Turnover

Section A (20 marks)

1. **Read the following passage carefully and afterwards make a summary of it in NOTE- FORM. In your summary:**

   a. provide a suitable title for the passage.
   b. give the main points.
   c. supply supporting points for each main point.

   Marks will be awarded for content, note-style, and fair-copy layout. Candidates who simply copy the passage will be penalised.

There are several activities that can help teachers impart knowledge and skills of listening and writing to learners. One of the activities neglected by many teachers, especially in secondary schools is dictation. It is a simple exercise if teachers are familiar with the stages in this activity. Therefore, let us have some time to look at stages that are followed in dictation.

Firstly, the teacher reads a number of books and identifies a passage. The teacher reads the passage several times in order to find out if the things he or she wants the learners to achieve are available in it. When choosing the passage, the teacher makes sure that it is simple, clear and short. The passage must not contain ambiguous words to avoid confusing learners. In addition, the teacher must make sure that the passage contains the spelling pattern which he or she wants the learners to exhibit. For example, if the teacher wants learners to exhibit knowledge or skills on words ending in -tion or -sion, the passage must have more of such words than others.

Continued/...

1. **(Continued)**

The next stage is to divide the passage into readable words or phrases using slashes. Each word or phrase slashed must not cause any confusion to learners. To avoid such problems, the teacher must do some practice in reading each word or phrase before the activity is brought to learners. Sometimes it works well if the teacher does the practice in the presence of another teacher for assistance in proper pronunciation of some words. By doing this, unnecessary pronunciation errors are attended to before the exercise. However, if the teacher has problems after some practice, he or she may assign the work to a colleague who can do it better.

The third stage is reading aloud. This stage is done by the teacher in the classroom. It is done before the actual writing by learners. This time, the teacher reads the passage aloud while learners just listen attentively. Learners are not allowed to write down anything. The teacher ensures that voice projection is clear as the passage is read. Besides, it has to be clear, simple and audible to every learner. This time, the teacher does not allow any interruption from learners.

Finally, the teacher takes the last reading. This is done in pauses. This time, the teacher stands in a position that every learner will be able to clearly hear him or her. The teacher reads each phrase or word aloud. He or she does this twice and slowly. The slashes act as pausing positions for the teacher.

Continued/...

1. **(Continued)**

Learners listen attentively and write the passage as the teacher reads aloud. As the teacher reads out the passage, he or she tells the learners every punctuation mark that is required at each point in each sentence. Furthermore, the teacher must avoid giving clues to learners on pronunciation because it may guide learners to the correct spellings.

In summation, for teachers to be successful in dictation, they have to be able to follow stages that have been discussed in this piece of work.

Continued/…

1. (Continued)

Continued/…

1. (Continued)

Continued/…

Section B (40 marks)

2. Read the following passage carefully and answer all the questions that follow.

Pilirani lost her mother when she was only fourteen years old. Her father remarried. So, she had to stay with her father and stepmother. Pilirani and her siblings tried to be nice to their stepmother but it went unnoticed. They ended up being turned into maids. The woman was always yelling at them for no apparent reason. Pilirani believed that her father was unaware of this. If he was, he turned a blind eye, probably for fear of offending his new love.

Kids being kids, Pilirani dated a high school sweetheart at fifteen. On a routine visit to their hut, her stepmother found the perfect excuse to have Pilirani evicted from the house. She took advantage of it to fabricate many things against Pilirani. Eventually, Pilirani got chased from her stepmother's home to her boyfriend's.

The new couple lived happier than most people expected. Sadly, poverty forced them to sacrifice things so dear to them. Tired of being poor, Zagwa moved to Doroba to ensure that their children's school needs could be met. Unfortunately, his stay in Doroba was cut short. The love of Pilirani's life was mysteriously run over by a truck. The well which they were so dependent on, dried up.

Zagwa had been the eldest son and provided for his parents. With his passing, Pilirani inherited that particular responsibility as well. There was no way she could leave her in-laws to the dogs. Besides, they always kept an eye on her kids when she was busy or away.

Continued/...

2. **(Continued)**

Pilirani hatched a plan to go to Doroba to compensate for the income they had lost as a result of her husband's death. She had no passport but she heard of stories of people making it to Doroba without travel documents. This was a risk worth taking.

The people of her village and its surrounds employed the services of the transporters to go to Doroba. They were popular as they were willing to ferry people across Malambia borders at negotiated fares, and even more importantly, whether or not one had a passport.

At a stopover, on her way to Doroba, in Mbalale, the transporter advised everyone that Malambia – Doroba border would be tricky to pass. He took everyone's cell phone numbers on the pretext that he would call them to bang heads on how to proceed to their destination.

True to his words, just before midnight, the transporter called Pilirani. He told her to come over so that they would discuss how they would proceed with their journey.

Pilirani went to the transporter's quarters. As she entered the room, the transporter offered her a seat. In no time, he locked the door. Pilirani realized that the man was on a sinister mission. Pilirani assured herself that he won't succeed. She wasn't someone to be taken advantage of. They wrestled as the transporter made attempts to rape her. She prayed to her ancestors to be on her side. As if they heard her prayer, she picked a metal bar which was under the bed and hit him hard on the forehead.

Continued/...

2. (Continued)

The next thing she remembered was the anonymous call she received. She was summoned to call at Thundu Police Station. She was called for interrogations as she was the last person to talk to the transporter on his phone before his demise. She got remanded at Zonda Prison waiting for trial.

a. At what age did Pilirani lose her mother?

____

(1 mark)

b. Give **two** instances to show that the stepmother abused Pilirani and her siblings.

(i) ______________________________

____

(1 mark)

(ii) ______________________________

____

(1 mark)

c. What led Pilirani to be chased from her father's house?

____

____

(2 marks)

d. Why did Zagwa leave his native country?

____

____

(2 marks)

Continued/...

2. (Continued)

e. What shows that Pilirani cared much about her in-laws?

____

____

(2 marks)

f. Give the meaning of each of the following words as used in the passage.

(i) 'yelling' **(paragraph 1)**

____

(1 mark)

(ii) **'fabricate' (paragraph 2**

____

(1 mark)

(iii) 'pretext' **(paragraph 7)**

____

(1 mark)

g. Explain the meaning of each of the following expressions:

(i) 'turned a blind eye' **(paragraph 1)**

____

____

(2 marks)

(ii) **'kept an eye on' (paragraph 4)**

____

____

(2 marks)

(iii) 'hatched a plan' **(paragraph 5)**

____

____

(2 marks)

h. Describe Zagwa's character.

____

____

(2 marks)

Continued/…

2. **(Continued)**

n\. Summarise the passage in your own words. Your summary should be between **70** and **100** words.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/I

Monday, 3 July

Time Allowed: 1 h 45 min
2:00 – 3:45 pm

PAPER I

(70 marks)

Instructions

1. **This paper contains 10 printed pages. Please check.**
2. The paper has two sections, A and B.
3. Write your **Examination Number** on all pages of the question paper.
4. In the table provided on this page, **tick** against the question number you have answered.
5. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns		Marker's Name
1 - 5				
6 - 10				
11-15				
16-20				
21-25				
26-30				
31				
32				

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Section A (30 marks)

Answer **all** questions in this section by encircling the letter corresponding to the correct answer for each question.

In questions **1 – 18**, choose the option **(A, B, C, or D)** that best completes the sentence.

1. He was dismissed _______ allegations that he lied and stole company property.
A. for
B. at
C. through
D. on

2. We were all stunned ________ the revelations contained in the letter.
A. with
B. by
C. at
D. to

3. The players are already ________ the pitch, waiting for the referee.
A. in
B. to
C. on
D. at

4. Tiwonge insisted _______buying the present for her friend.
A. with
B. on
C. at
D. in

5. My grandfather recovered quickly because we looked_______ him very well.
A. after
B. for
C. on
D. over

6. Most learners are now adhering _______the school's revised rules.
A. by
B. with
C. at
D. to

7. Chikondi looked around in amazement as he alighted_______the bus.
A. on
B. in
C. from
D. by

8. The heavy thunderstorm blew _______the roofs of the new institution.
A. up
B. away
C. off
D. Out

Continued/...

9. The athletes were told to converge _______the field track an hour before the race.
A. to
B. by
C. on
D. at

10. He has sent the_______ of his new book for publishing.
A. draft
B. manuscript
C. script
D. document

11. We consulted a qualified _______to come up with the plan of the church building.
A. designer
B. engineer
C. builder
D. architect

12. The head girl was advised to _______her responsibilities to her deputy.
A. share
B. offer
C. delegate
D. distribute

13. Mosquitoes_______in a swamp unless it is drained.
A. will breed
B. will be breeding
C. bred
D. breed

14. If the message had been sent in time, she _______prepared for the interview.
A. would have been
B. could have been
C. could be
D. would be

15. Nyanya had made many friends and he knew he_______them, if he left.
A. would miss
B. would have missed
C. will miss
D. could miss

16. It was evident that Mkwinda was ______ by his wife's critical remarks.
A. put out
B. put away
C. put off
D. put down

17. The riots had already _______when the police arrived.
A. died down
B. died away
C. died off
D. died out

18. The City Council members decided to _______all the old buildings.
A. pull away
B. pull up
C. pull down
D. pull out

Continued/...

In questions 19 – 22, choose option(A, B, C or D) that best describes the underlined part of speech.

19. You will find some relief items stored in your house.
A. adverb
B. verb
C. conjunction
D. adjective

20. The room was big enough for the function.
A. noun
B. adjective
C. pronoun
D. adverb

21. Whom did Takondwa see at the meeting?
A. adverb
B. noun
C. adjective
D. conjunction

22. 'Does either of you play Bawo?' He asked them.
A. adjective
B. conjunction
C. pronoun
D. adverb

In questions 23 –26, choose the order of adjectives (A, B, C or D) that best completes the sentences.

23. They are building a _______ room.
A. big comfortable reading
B. big reading comfortable
C. comfortable big reading
D. comfortable reading big

24. The flower girls carried _______ baskets.
A. tiny decorated bamboo
B. decorated tiny bamboo
C. tiny bamboo decorated
D. decorated tiny bamboo

25. The shop is now stocking _______ jewels.
A. precious new golden
B. new precious golden
C. golden precious new
D. new golden precious

26. The _______ animal made the film exciting.
A. enormous land scary
B. scary enormous land
C. land scary enormous
D. enormous scary land

Continued/..

In questions **27 – 30**, choose the option **(A, B, C or D)** that best describes and gives the function of the underlined phrase or clause.

27. Have you visited the shop where they sell furniture?
- A. adjective clause, qualifying 'shop'
- B. adjective phrase, qualifying 'shop'
- C. adverb clause, modifying 'visited'
- D. noun phrase, object of 'visited'

28. Before she accepted, she carefully considered the proposal.
- A. noun clause, subject of 'considered'
- B. adverb phrase, modifying 'considered'
- C. noun phrase, subject of 'considered'
- D. adverb clause, modifying 'considered'

29. The villagers cannot understand why she left her parents.
- A. adverb clause, modifying 'understand'
- B. noun clause, object of 'will 'understand'
- C. adjective clause, qualifying 'villagers'
- D. adverb phrase, qualifying'understand'

30. The fact that he wants to marry a working lady is clear to his friends.
- A. adverb clause, modifying 'is clear'
- B. adjective phrase, qualifying 'fact'
- C. adjective clause, qualifying 'fact'
- D. noun clause, in apposition to 'fact'

Continued/...

Section B (40 marks)

Answer **one** question only. Spend the first **10 minutes** reading the questions and planning your answer to the question chosen. Planning may include writing rough notes. **Cross out** your rough notes before you hand in your script.

Marks will be awarded for layout, language, content and creativity. Candidates will be **penalised** for mechanical errors and writing answers that are short and/or off-point.

You are expected to write between **350** and **500 words** for the question you have chosen in the spaces provided on **pages 7 to 10**.

EITHER

31. Imagine that cases of mob justice in your area are on the increase. As a concerned member of the area, write a letter to the Officer-in-charge of the nearest police station informing him or her about the problem.

(40 marks)

OR

32. Write an original short story entitled "A shocking revelation". **(40 marks)**

Continued/...

Continued/...

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Continued/...

END OF QUESTION PAPER

NB: This paper contains 10 printed pages.

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EXAMINATION NO.:______________

THE MALAWINATIONAL EXAMINATIONS BOARD

2023MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/II

Tuesday, 4 July

Time Allowed: 1h 45 min
11:00 – 12:45 pm

PAPER II

(60 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. The paper has two sections: **A** and **B.**
3. Answer all questions in **both** sections.
4. Use the spaces provided to answer questions in this paper.
5. Follow the instructions for each section carefully.
6. Write your **Examination Number** at the top of each page of the question paper.
7. In the table provided on this page, **tick** against the question number you have answered.
8. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick questions 1 & 2 if answered	Do not write in these columns	
1			
2			

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Section A (20 marks)

1. **Read the following passage carefully and afterwards make a summary of it in NOTE- FORM. In your summary:**

   a. provide a suitable title for the passage.
   b. give the main points.
   c. supply supporting points for each main point.

Marks will be awarded for content, note-style, and fair-copy layout. Candidates who simply copy the passage will be penalised.

There are several activities that can help teachers impart knowledge and skills of listening and writing to learners. One of the activities neglected by many teachers, especially in secondary schools is dictation. It is a simple exercise if teachers are familiar with the stages in this activity. Therefore, let us have some time to look at stages that are followed in dictation.

Firstly, the teacher reads a number of books and identifies a passage. The teacher reads the passage several times in order to find out if the things he or she wants the learners to achieve are available in it. When choosing the passage, the teacher makes sure that it is simple, clear and short. The passage must not contain ambiguous words to avoid confusing learners. In addition, the teacher must make sure that the passage contains the spelling pattern which he or she wants the learners to exhibit. For example, if the teacher wants learners to exhibit knowledge or skills on words ending in -tion or -sion, the passage must have more of such words than others.

Continued/...

1. (Continued)

The next stage is to divide the passage into readable words or phrases using slashes. Each word or phrase slashed must not cause any confusion to learners. To avoid such problems, the teacher must do some practice in reading each word or phrase before the activity is brought to learners. Sometimes it works well if the teacher does the practice in the presence of another teacher for assistance in proper pronunciation of some words. By doing this, unnecessary pronunciation errors are attended to before the exercise. However, if the teacher has problems after some practice, he or she may assign the work to a colleague who can do it better.

The third stage is reading aloud. This stage is done by the teacher in the classroom. It is done before the actual writing by learners. This time, the teacher reads the passage aloud while learners just listen attentively. Learners are not allowed to write down anything. The teacher ensures that voice projection is clear as the passage is read. Besides, it has to be clear, simple and audible to every learner. This time, the teacher does not allow any interruption from learners.

Finally, the teacher takes the last reading. This is done in pauses. This time, the teacher stands in a position that every learner will be able to clearly hear him or her. The teacher reads each phrase or word aloud. He or she does this twice and slowly. The slashes act as pausing positions for the teacher.

Continued/...

1. **(Continued)**

Learners listen attentively and write the passage as the teacher reads aloud. As the teacher reads out the passage, he or she tells the learners every punctuation mark that is required at each point in each sentence. Furthermore, the teacher must avoid giving clues to learners on pronunciation because it may guide learners to the correct spellings.

In summation, for teachers to be successful in dictation, they have to be able to follow stages that have been discussed in this piece of work.

Continued/...

1. **(Continued)**

863

0017

Continued/…

1. (Continued)

Continued/…

Section B (40 marks)

2. Read the following passage carefully and answer all the questions that follow.

Pilirani lost her mother when she was only fourteen years old. Her father remarried. So, she had to stay with her father and stepmother. Pilirani and her siblings tried to be nice to their stepmother but it went unnoticed. They ended up being turned into maids. The woman was always yelling at them for no apparent reason. Pilirani believed that her father was unaware of this. If he was, he turned a blind eye, probably for fear of offending his new love.

Kids being kids, Pilirani dated a high school sweetheart at fifteen. On a routine visit to their hut, her stepmother found the perfect excuse to have Pilirani evicted from the house. She took advantage of it to fabricate many things against Pilirani. Eventually, Pilirani got chased from her stepmother's home to her boyfriend's.

The new couple lived happier than most people expected. Sadly, poverty forced them to sacrifice things so dear to them. Tired of being poor, Zagwa moved to Doroba to ensure that their children's school needs could be met. Unfortunately, his stay in Doroba was cut short. The love of Pilirani's life was mysteriously run over by a truck. The well which they were so dependent on, dried up.

Zagwa had been the eldest son and provided for his parents. With his passing, Pilirani inherited that particular responsibility as well. There was no way she could leave her in-laws to the dogs. Besides, they always kept an eye on her kids when she was busy or away.

Continued/...

2. (Continued)

Pilirani hatched a plan to go to Doroba to compensate for the income they had lost as a result of her husband's death. She had no passport but she heard of stories of people making it to Doroba without travel documents. This was a risk worth taking.

The people of her village and its surrounds employed the services of the transporters to go to Doroba. They were popular as they were willing to ferry people across Malambia borders at negotiated fares, and even more importantly, whether or not one had a passport.

At a stopover, on her way to Doroba, in Mbalale, the transporter advised everyone that Malambia – Doroba border would be tricky to pass. He took everyone's cell phone numbers on the pretext that he would call them to bang heads on how to proceed to their destination.

True to his words, just before midnight, the transporter called Pilirani. He told her to come over so that they would discuss how they would proceed with their journey.

Pilirani went to the transporter's quarters. As she entered the room, the transporter offered her a seat. In no time, he locked the door. Pilirani realized that the man was on a sinister mission. Pilirani assured herself that he won't succeed. She wasn't someone to be taken advantage of. They wrestled as the transporter made attempts to rape her. She prayed to her ancestors to be on her side. As if they heard her prayer, she picked a metal bar which was under the bed and hit him hard on the forehead.

Continued/...

2. **(Continued)**

The next thing she remembered was the anonymous call she received. She was summoned to call at Thundu Police Station. She was called for interrogations as she was the last person to talk to the transporter on his phone before his demise. She got remanded at Zonda Prison waiting for trial.

a. At what age did Pilirani lose her mother?

____

(1 mark)

b. Give **two** instances to show that the stepmother abused Pilirani and her siblings.

(i) ____

____

(1 mark)

(ii) ____

____

(1 mark)

c. What led Pilirani to be chased from her father's house?

____

____

(2 marks)

d. Why did Zagwa leave his native country?

____

____

(2 marks)

Continued/...

2. (Continued)

e. What shows that Pilirani cared much about her in-laws?

____

____

(2 marks)

f. Give the meaning of each of the following words as used in the passage.

(i) 'yelling' **(paragraph 1)**

____

(1 mark)

(ii) 'fabricate' **(paragraph 2**

____

(1 mark)

(iii) 'pretext' **(paragraph 7)**

____

(1 mark)

g. Explain the meaning of each of the following expressions:

(i) 'turned a blind eye' **(paragraph 1)**

____

____

(2 marks)

(ii) 'kept an eye on' **(paragraph 4)**

____

____

(2 marks)

(iii) 'hatched a plan' **(paragraph 5)**

____

____

(2 marks)

h. Describe Zagwa's character.

____

____

(2 marks)

Continued/…

2. **(Continued)**

n. Summarise the passage in your own words. Your summary should be between **70** and **100** words.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.: ______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/II

Wednesday, 12 July

Time Allowed: 2 hours
1:30 – 3:30 pm

PAPER II

(100 marks)

HUMAN AND ECONOMIC GEOGRAPHY

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. This paper has **5** questions. Answer the questions in the spaces provided.
3. The paper has **two** sections **A** and **B**. Follow the instructions for each section carefully.
4. Write your **Examination Number** on top of each page of the question paper.
5. In the table provided on this page **tick** against the question number you have answered.
6. Hand in your **question paper** to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

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Turn over

Section A (75 marks)

Answer **all** the questions in this section in the spaces provided.

1. a. (i) Name any **two** districts in Malawi where tea is grown.

____

____

(2 marks)

(ii) Describe any **two** climatic conditions which influence tea farming in Malawi.

____

____

____

____

(4 marks)

(iii) State any **two** ways in which shade is important in tea gardens.

____

____

(2 marks)

b. With the aid of a flow diagram describe the stages in the processing of tea.

____

____

____

____

____

(8 marks)

Continued/...

1. **(Continued)**

c. (i) Mention any **two** sources of water for irrigation farming in Israel.

____

____

(2 marks)

(ii) Explain any **two** challenges faced by Israel when sourcing water for irrigation.

____

____

____

____

(4 marks)

d. State any **three** factors which hinder the development of irrigation farming in Malawi.

____

____

____

(3 marks)

a. (i) Give any **one** example of trade blocks to which Malawi is a member at each of the following scales:

(1) regional

____

(1 mark)

(2) global

____

(1 mark)

(ii) State any **two** aims of Southern Africa Development Community.

____

____

(2 marks)

Continued/...

2. a. **(Continued)**

(iii) Explain any **two** benefits of trade agreements.

____

____

____

____

____

____ **(4 marks)**

b. (i) Name any **one** tourist attraction site in East Africa.

____ **(1 mark)**

(ii) Describe any **two** major physical factors promoting tourism in Africa.

____

____

____

____

____

____ **(4 marks)**

c. (i) State any **two** international agreements on climate change which have been ratified by Malawi.

____

____

____

____ **(2 marks)**

Continued/..

2. c. **(Continued)**

(ii) Explain any **two** human causes of climate change.

____

____

____

____

(4 mark)

d. **Figure 1** is a map of Southern Africa showing the distribution of railway lines.

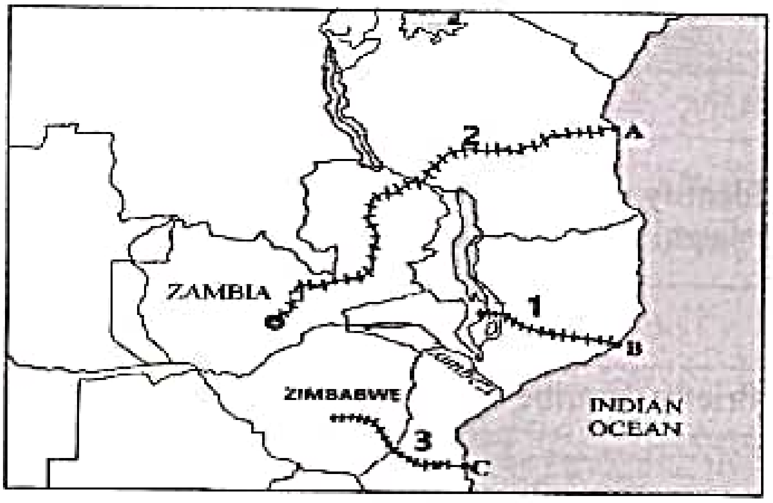

Figure 1

(i) Name the railway lines labelled **1** and **2**.

1. ______________________________ **(1 mark)**

2. ______________________________ **(1 mark)**

(ii) Explain any **two** challenges faced by land locked countries in southern Africa when using the rail routes shown on the map.

____

____

____

____

(4 marks)

Continued/…

3. a. **Figure 2** is a diagram showing the production process of energy. Use it to answer questions that follow.

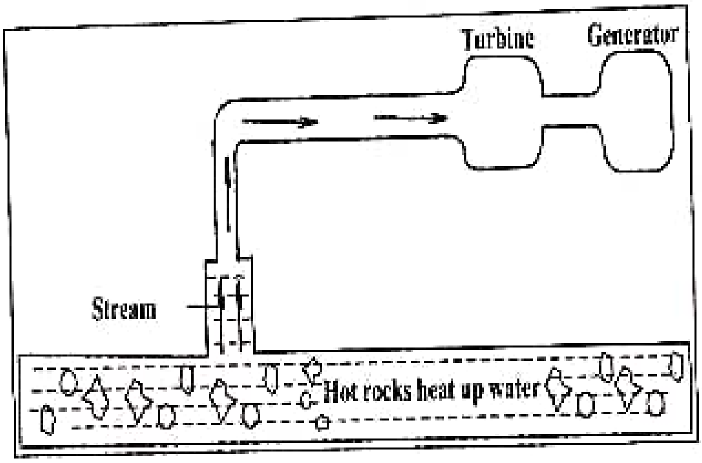
Turbine
Generator
Stream
Hot rocks heat up water

Figure 2

(i) Identify the energy being produced.

______________________________ **(1 mark)**

(ii) Briefly describe the energy production process shown in the diagram.

____

____

____

____

______________________________ **(4 marks)**

(iii) Explain any **two** challenges which the production of energy shown in the diagram faces.

____

____

____

______________________________ **(4 marks)**

Continued/..

3. (Continued)

b. Describe the following methods of mining:

(i) adit

(3 marks)

(ii) open cast

(3 marks)

c. Explain any **two** ways in which petroleum drilling, impacts the environment negatively.

(4 marks)

d. State any **two** advantages of transporting petroleum using pipelines.

(2 marks)

e. Explain any **two** roles of the Organisation of Petroleum Exporting Countries.

(4 marks)

Continued/...

Section B (25 marks)

Answer **one** question only from this section in the spaces provided.

4. a. (i) State any **two** factors which promote the development of dispersed settlements.

____

______________________________ **(2 marks)**

(ii) Describe any **two** advantages of dispersed settlements.

____

____

____

____

______________________________ **(4 marks)**

(iii) Explain any **two** challenges associated with dispersed settlements.

____

____

____

____

______________________________ **(4 marks)**

b. Explain any **two** negative implications of ageing population.

____

____

____

____

______________________________ **(4 marks)**

Continued/..

4. **(Continued)**

c. **Figure 3** is an illustration of the Demographic Transitional model.

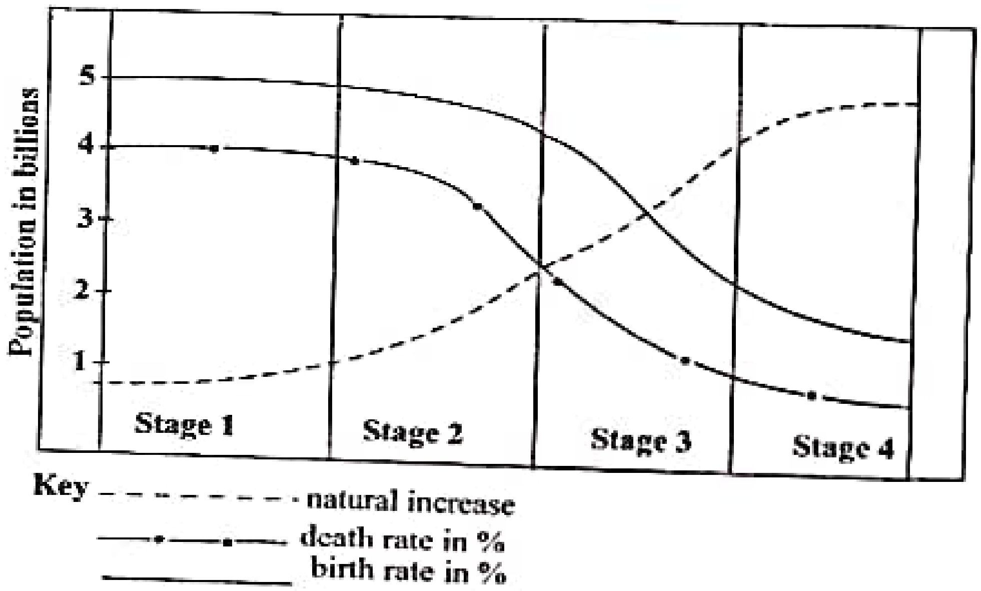

Figure 3

(i) Name each of the following stages:

1. stage **2**.

____ **(1 mark)**

2. stage **3**.

____ **(1 mark)**

(ii) State any **three** causes of high death rates in **Stage 1**.

____

____

____ **(3 marks)**

(iii) Why is **Stage 4** called Low Stationary Stage?

____

____ **(2 marks)**

4. c. **(Continued)**

(iv) Explain any **one** cause of each of the following demographic patterns occurring in **Stage 3**:

1. low death rates

____

______________________________ **(2 marks)**

2. decreasing birth rates

____

______________________________ **(2 marks)**

5. a. Explain how each of the following strategies helps to control urbanisation problems:

(i) vertical expansion of buildings

____

______________________________ **(2 marks)**

(ii) rural industrialisation

____

______________________________ **(2 marks)**

b. (i) Draw a diagram showing the functional zones of an urban area using the Concentric Zonal model. **(2 marks)**

Continued/…

5. b. **(Continued)**

(ii) On the diagram label the following:

1. transitional zone **(1 mark)**
2. industrial zone **(1 mark)**
3. commuter zone **(1 mark)**

c. **Figure** 4 is a map of Africa showing some of the densely populated regions. Use it to answer questions that follow.

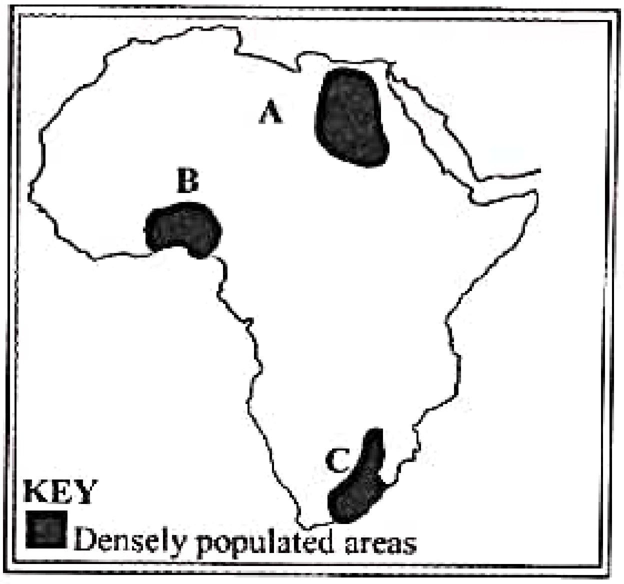

Figure 4

(i) Name any **two** densely populated cities which are located in the region labelled **B.**

____

____
(2 marks)

(ii) Describe any **two** factors influencing high population density in region labelled **A.**

____

____

____

____
(4 marks)

Continued/...

5. c. **(Continued)**

(iii) Explain any **two** challenges associated with high population density in the region marked **C**.

(4 marks)

d. (i) State any **two** economic problems associated with rapid population growth.

(2 marks)

(ii) Explain how each of the following strategies helps to control rapid population growth:

1. family planning

(2 marks)

2. civic education

(2 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.:____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Tuesday, 11 July

Time Allowed: 2 h 30 min
8:00 – 10:30 am

PAPER I

(100 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

1. **This paper contains 13 printed pages. Please check.**
2. The paper has **five** questions.
3. There are **two** sections, **A** and **B**. Follow the instructions for each section carefully.
4. Write your **Examination Number** on top of each page of the question paper.
5. In the table provided on this page, **tick against** the number of the question you have answered.
6. Hand in the **question paper** to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

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Turn over

Section A (75 marks)

Answer **all** the questions in this section in the spaces provided.

1. Study the **1:50,000** map extract for Zomba sheet **1533 B3** and use it to answer questions that follow.

a. (i) Identify the human made feature located on **six-figure** grid reference **777985.**

____

(1 mark)

(ii) Find the six-figure grid reference for the trigonometric point **Chilwa 1060.**

____

(2 marks)

b. Calculate the bearing of trigonometric station **1060** from trigonometric station **629.**

____

____

(3 marks)

c. Account for the distribution of settlements in the region captured on the map. Give any **one** point.

____

____

____

(3 marks)

d. Explain any **one** environmental challenge which is experienced by residents in the area shown on the map.

____

____

____

(3 marks)

Continued/…

1. **(Continued)**

e. Find the area of Lake Chilwa captured on the map within the area occurring under T/A Kuntumanji, presenting the answer to the nearest kilometre.

(6 marks)

f. Calculate the gradient of the **S143** road from **easting 71** to **easting 74.**

(7 marks)

Continued/...

2. a. (i) Describe the term 'meander" in relation to river profiles.

(2 marks)

(ii) With the aid of diagrams describe the process leading to formation of ox-bow lakes.

(9 marks)

b. **Figure 1** is a diagram showing coastal features.

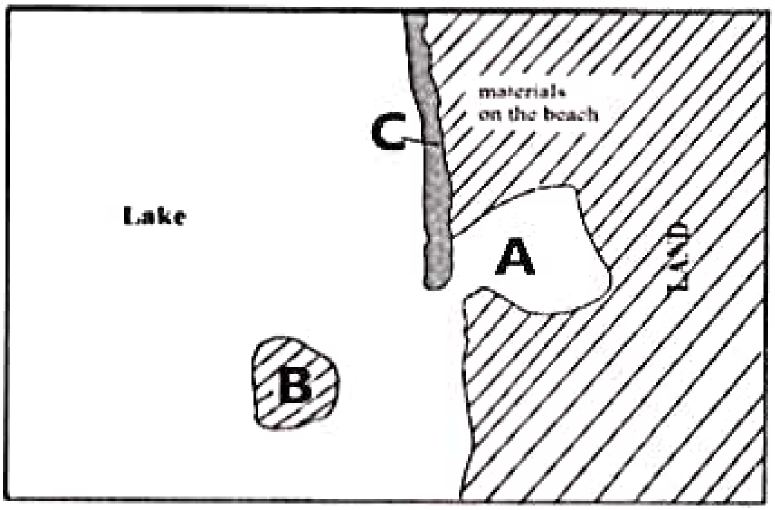

Figure 1

(i) Identify the coastal features labelled **B** and **C**.

B: ______________________________ **(1 mark)**

C: ______________________________ **(1 mark)**

Continued/…

2. b. **(Continued)**

(ii) Give any **two** examples of coastal feature **A** occurring along Lake Malawi.

____

____

(2 marks)

(iii) Describe the process through which coastal feature **B** is formed.

____

____

____

(3 marks)

c. **Figure 2** is an illustration of a plate boundary. Use it to answer questions that follow.

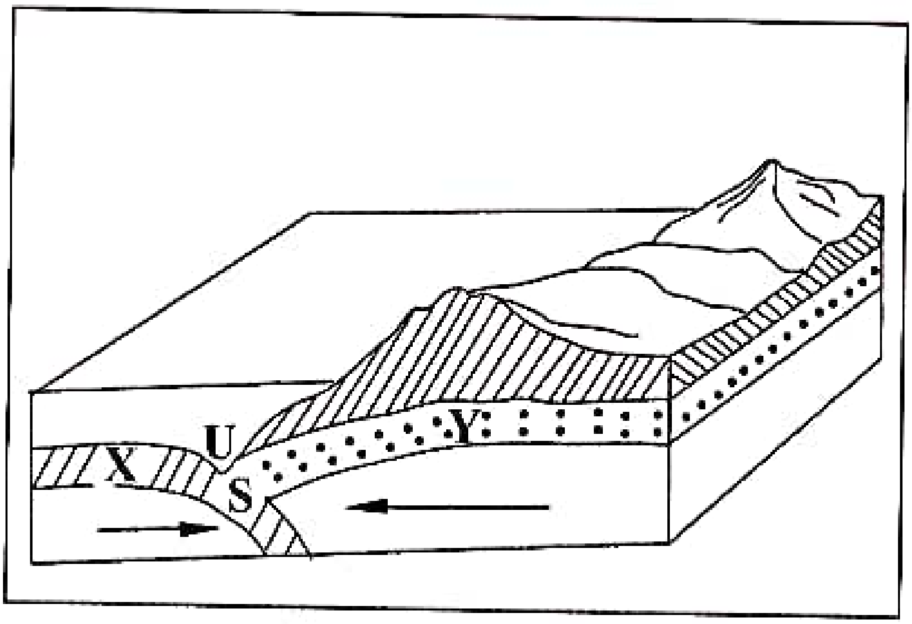

Figure 2

(i) What type of plate is plate **Y**?

____

(1 mark)

(ii) Identify the geological feature labelled **U**.

____

(1 mark)

Continued /…

2. **c.** **(Continued)**

(iii) Give any **two** examples of the geological feature labelled **U**.

(2 marks)

(iv) Describe the behaviour of plates **X** and **Y** when they meet at point **S**.

(3 marks)

3. a. State any **two** examples of climate change adaptation measures which are used in Malawi.

(2 mark)

b. Explain the influence of each of the following factors towards desertification:

(i) population growth

(2 marks)

(ii) overgrazing

(2 marks)

c. Describe any **one** effect of each of the following human activities on wetlands:

(i) cultivation

(2 marks)

Continued/…

3. c. (Continued)

(ii) pollution

____

____

(2 marks)

d. **Figure 3** is a map showing ocean currents.

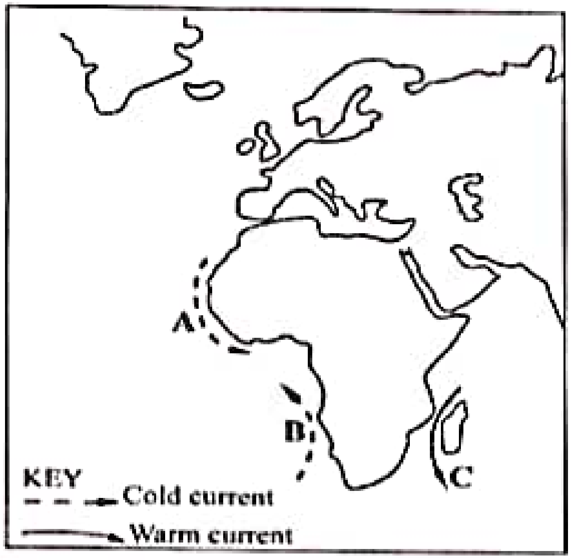

Figure 3

(i) Name the ocean currents labelled **A, B** and **C.**

A: ______________________________ **(1 mark)**

B: ______________________________ **(1 mark)**

C: ______________________________ **(1 mark)**

(ii) Describe any **one** effect of each of the following ocean currents on adjacent landmasses:

1. current **A**

____

____

(2 marks)

2. current **B**

____

____

(2 marks)

Continued/…

4. **(Continued)**

b. **Figure 4** is an illustration of a front. Use it to answer questions that follow.

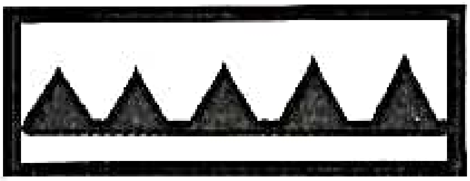

Figure 4

(i) Identify the type of the front shown.

____

(1 mark)

(ii) State any **two** atmospheric conditions which occur in an area due to the presence of the front shown.

____

____

(2 marks)

(iii) Describe how the front illustrated develops.

____

____

(3 marks)

c. **Figure 5** is an illustration showing the distribution of air pressure belts in the Southern hemisphere.

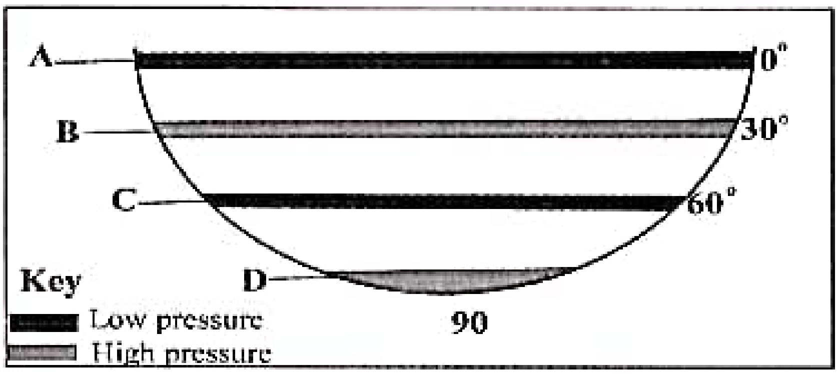

Figure 5

(i) Name the pressure belts labelled **A** and **D**.

A: ____ **(1 mark)**

D: ____ **(1 mark)**

Continued/…

4. c. (Continued)

(ii) Account for the pressure patterns in each of the following pressure belts:

1. belt **B**

(2 marks)

2. belt **C**

(2 marks)

(iii) Using arrows, show the direction of each of the following prevailing winds on the diagram:

1. Trades **(1 mark)**
2. Westerlies **(1 mark)**
3. Polar **(1 mark)**

d. **Table 1** shows climate data for a station **M** which is located 5° S. Use it to answer questions that follow.

Table 1

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	24	24	25	25	25	24	23	23	24	25	25	24
Prec in mm	215	210	205	220	210	205	200	195	210	220	215	210

(i) Identify the climate represented by the data for station **M**.

(1 mark)

(ii) Name any two countries in the western hemisphere which experience the climate similar to that of station **M**.

(2 marks)

Continued/...

4. d. **(Continued)**

(iii) Explain any **two** challenges which affect development in the areas that are located in the climatic region represented by the table.

(4 marks)

5. a. **Table 2** shows climate data for station **P** located **35° N**. Use it to answer questions that follow.

Table 2

Month	**J**	**F**	**M**	**A**	**M**	**J**	**J**	**A**	**S**	**O**	**N**	**D**
Temp °C	06	08	14	20	24	26	26	23	21	18	12	08
Preci mm	200	100	50	20	05	00	05	15	50	150	200	220

(i) Identify the climatic region represented by the table.

(1 mark)

(ii) Calculate the annual temperature range for Station **P**.

(2 marks)

(iii) Explain the rainfall pattern for Station **P**.

(3 marks)

Continued/…

5. (Continued)

b. With the aid of a well labelled diagram describe the occurrence of a land breeze.

____

____

____

____

____

(7 marks)

c. **Figure 6** is a map of Africa showing distribution of some local winds.

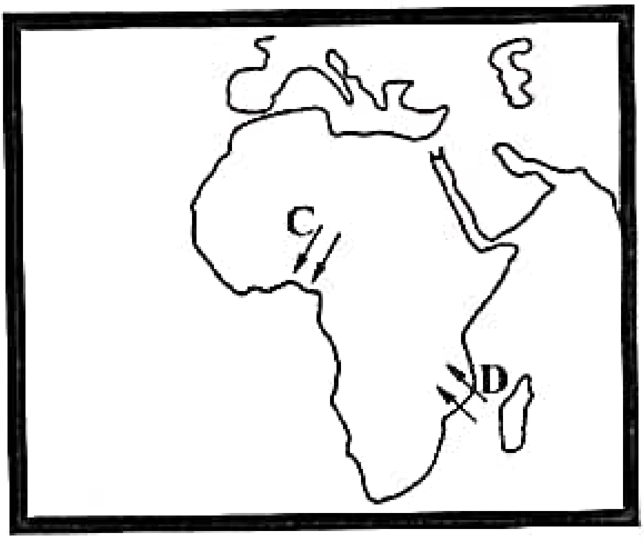

Figure 6

(i) Identify local winds **C** and **D**.

C: ____________________________________ **(1 mark)**

D: ____________________________________ **(1 mark)**

Continued/...

5. c. (Continued)

(ii) Name the two countries which are affected by wind **D**.

____

____

(2 marks)

(iii) State any **two** characteristics of wind **D**.

____

____

(2 marks)

(iv) Describe the weather patterns associated with local wind **C**.

____

____

____

____

(2 marks)

(v) Explain any **two** effects of local wind **C** to the affected areas.

____

____

____

____

____

(4 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/I

Wednesday, 5 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. Answer **all** the **20** questions in this paper.
3. The maximum number of marks for each answer is indicated against each question.
4. Scientific calculators may be used.
5. The graph paper and the blank answer sheet at the end of the question paper can be used if required. **Do not** tear them off.
6. **All working must be clearly shown.**
7. Write your **Examination Number** at the top of each page of your question paper in the spaces provided.
8. In the table provided on this page, **tick** against the question number you have answered.
9. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
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Answer all the **twenty** questions in the spaces provided.

1. Factorise completely $2x^2 - 11x - 21$. **(3 marks)**

2. Without using a calculator, rationalise the denominator of $\frac{4}{\sqrt{7}-2}$. **(5 marks)**

3. Calculate the sum of terms of the first 12 even numbers of an Arithmetic Progression: 1, 2, 3, 4,…. **(4 marks)**

4. The range of a function $g(x) = 2x - 1$ is $\{-3, -1, 3, 0\}$. Draw an arrow diagram showing the mapping with its domain. **(5 marks)**

5. Make a subject of the formula $t = \sqrt{\frac{b}{y-a}}$. **(5 marks)**

6. Find the remainder when $x^3 - 5x - 7$ is divided by $x + 1$. **(4 marks)**

7. The volumes of two similar cylinders, **A** and **B** are 125 cm^3 and 27 cm^3 respectively. 016
Calculate the area of cylinder **B**. **(5 marks)**

8. Given that $y = 2^a x + 6$ and $4 + 2y = 16x$ are two parallel lines, find the value of a. 0113

(5 marks)

Continued/...

9. **Figure 1** shows triangle **PQR** on a graph paper.

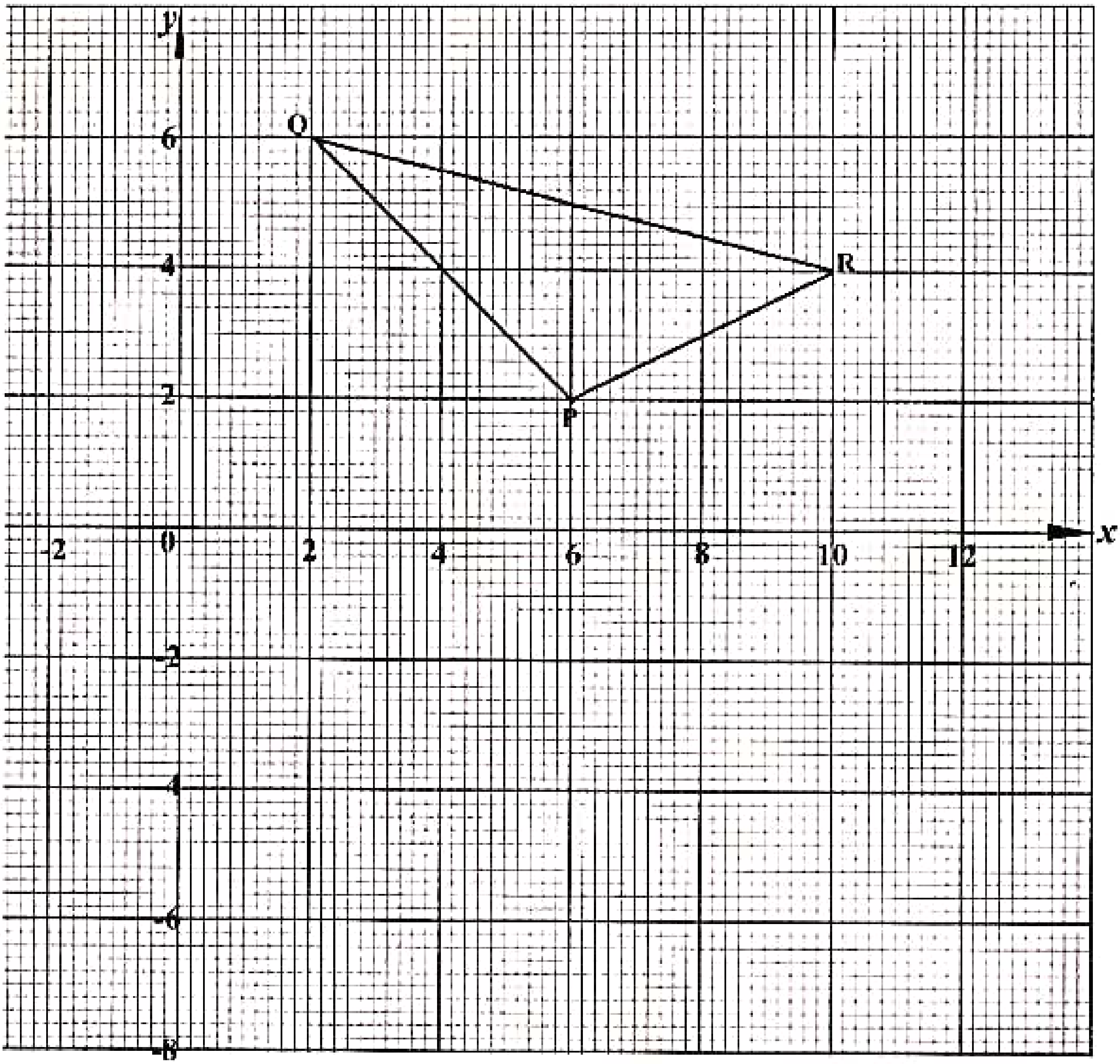
y
x
Q
R
P
6
4
2
0
-2
-4
-6
-8
-2
2
4
6
8
10
12

Figure 1

On the same graph paper, draw triangle **P/Q/R/** after a rotation of – 45° about (0, 0). **(5 marks)**

10. Solve the equation $2x^2 - 4x - 3 = 0$, giving the answer to 2 decimal places.

(7 marks)

11. Given that the following two sets of numbers $0, 1, 3, 2, 3, 9, 5, 5, 5, 7$ and $2, x, 7, 1$ have equal mean, calculate the value of x. **(4 marks)**

12. The distance between two points **A** and **B** is 13. Given that the points are **A** (n, 2) and **B** (2, 14), find the value of n. **(6 marks)**

13. A ladder 4 m long leans against a wall making an angle of 30° with the ground. Calculate the distance between the ladder and the wall. **(4 marks)**

Continued/…

14. **Figure 2** shows two parallel chords **AB** and **CD** that lie on the same side of a circle centre **O.**

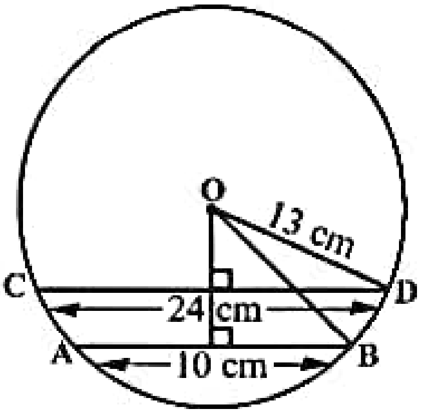

Figure 2

If **AB** = 10 cm, **CD** = 24 cm and **OD** = 13 cm, find the distance between the chords.

(6 marks) .

Continued/...

15. Given that matrices $\mathbf{A} = \begin{bmatrix} 4 & 6 \\ 5 & 7 \end{bmatrix}$ and $\mathbf{B} = \begin{bmatrix} 1 & 3 \\ 2 & 5 \end{bmatrix}$, find matrix $(\mathbf{A} - \mathbf{B})^2$.

(5 marks)

16. The quantity q varies directly as the cube of x and inversely as the square root of z. If $w = 16$, $x = 2$ and $z = 9$, find the value of z when $x = 3$ and $q = 18$.

(6 marks)

Continued/…

17. On the same axes, draw the graphs to show the region bounded by the following inequalities on the graph paper below. Shade the unwanted region.

$x \geq 0$

$y \leq 2.5$

$4x \leq 12 + 3y$

$y > -\frac{1}{2}y$

(5 marks)

Continued/...

18. **Figure 3** shows a velocity-time graph of a moving object.

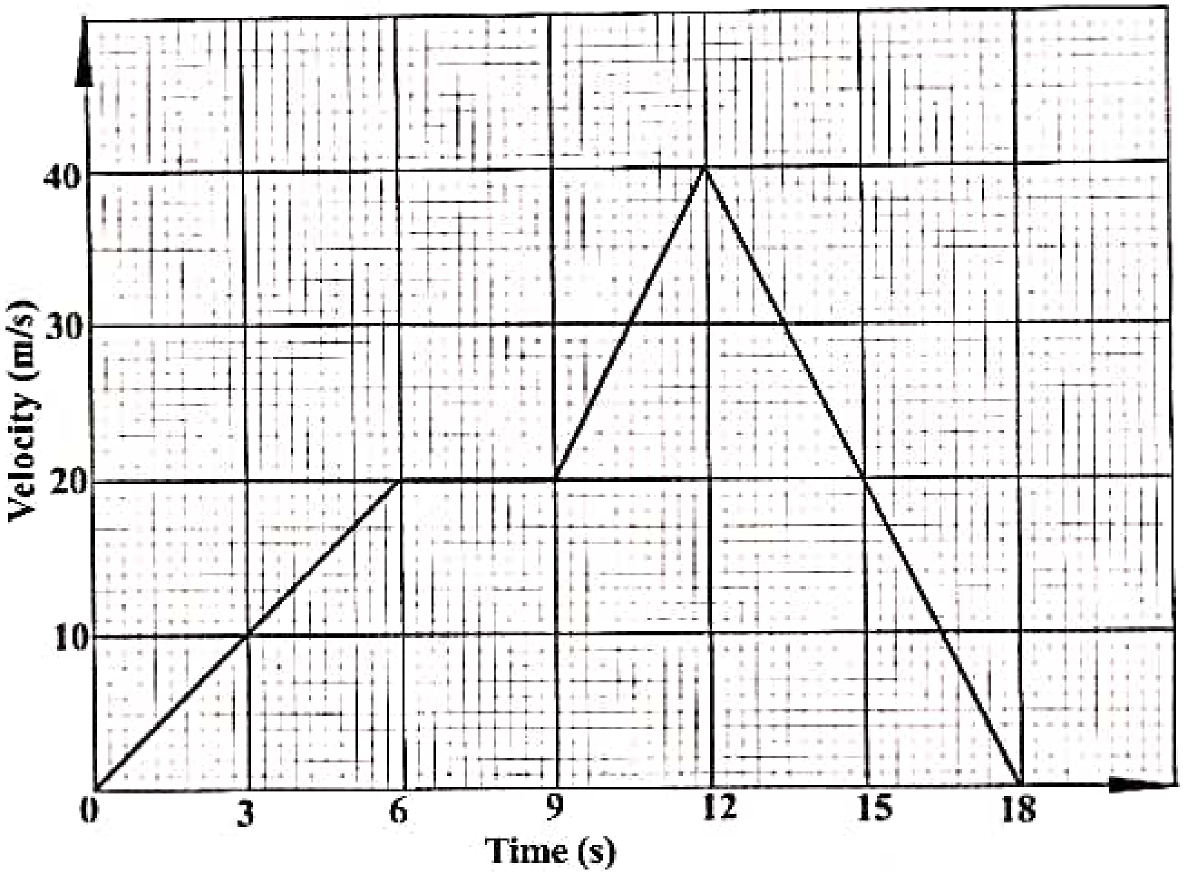

Figure 3

Calculate the total distance travelled by the object. **(6 marks)**

19. **Figure 4** is a circle **ABCD** in which **ABE** and **DCE** are straight lines.

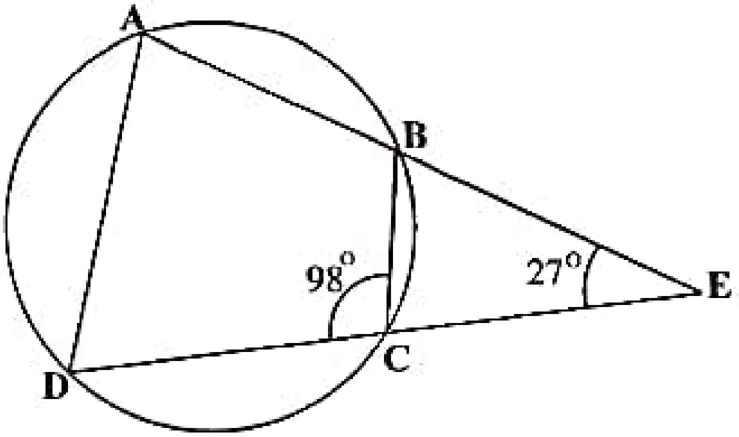

Figure 4

If angle **BCD** = 98° and angle **AED** = 27°, calculate angle **CDA**. **(4 marks)**

20. **Figure 5** shows a solid cone of base diameter **XY** and a perpendicular height **OV**.

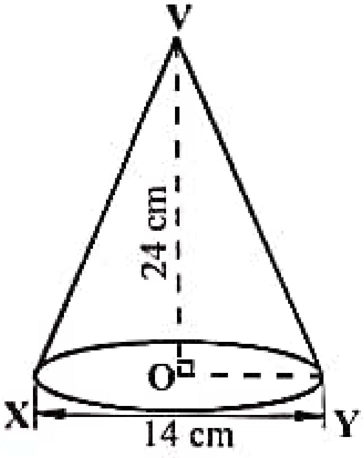

Figure 5

If **XY** = 14 cm and **OV** = 24 cm, calculate the total surface area of the cone.

(6 marks)

END OF QUESTION PAPER

NB: This paper contains 14 printed pages.

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

PHYSICS

Subject Number: M164/I

Monday, 10 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. Write your **Examination Number** at the top of each page of this question paper.
3. This paper contains two sections: **A** and **B.** In **Section A** there are **ten** short answer questions while in **Section B** there are **three** restricted essay questions.
4. Use of scientific calculators is allowed.
5. The maximum number of marks for each answer is indicated against each question.
6. In the table provided on this page, **tick** against the number of the question you have answered.
7. Hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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EXAMINATION NO.:__________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

PHYSICS

Subject Number: M164/I

Monday, 10 July

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. Write your **Examination Number** at the top of each page of this question paper.
3. This paper contains two sections: **A** and **B**. In **Section A** there are **ten** short answer questions while in **Section B** there are **three** restricted essay questions.
4. Use of scientific calculators is allowed.
5. The maximum number of marks for each answer is indicated against each question.
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Section A (70 marks)

Answer all the **ten** questions in this section in the spaces provided.

1. a. What is the difference between absolute errors and relative errors?

____

____

(1 mark)

b. How can a long sightedness problem be corrected?

____

____

____

(2 marks)

c. How does repeating an experiment minimise errors in an an investigation?

____

____

____

(2 marks)

d. **Figure 1** is a diagram showing a thermometer that reads 31°C. Use it to answer the questions that follow:

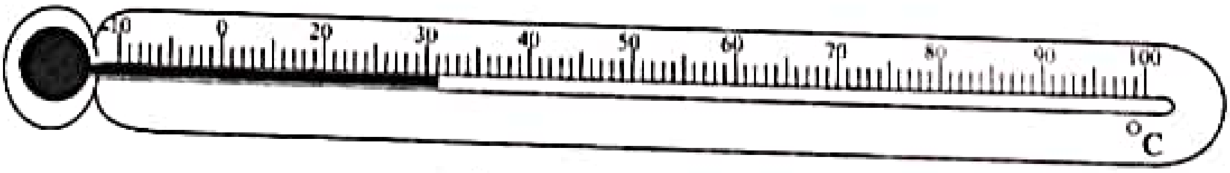

Figure 1

(i) What quantity does the instrument measure?

____

(1 mark)

(ii) If a student reads 30°C what type of experimental error is made?

____

(1 mark)

Continued/...

2. a. Give any **two** ways of preventing dangers of radio-active substances.

____

____

(2 marks)

b. How does Beta radiation occur?

____

____

____

(2 marks)

c. Why does sugar spread faster when dropped in warm water than in cold water?

____

____

____

(3 marks)

3. a. Convert 45μA into A.

(2 marks)

b. Give any **two** reasons why the amplitude of an oscillating pendulum decreases with time.

____

____

____

(2 marks)

Continued/...

3. **(Continued)**

c. Give any two effects of atmospheric pressure.

____

____

(2 marks)

4. **Figure 2** shows velocity – time graphs of moving objects, A and B on the same axis.

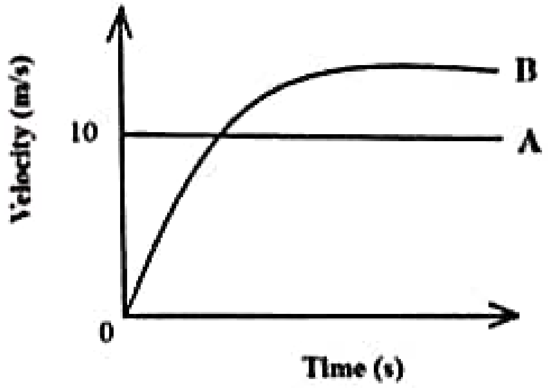

Figure 2

a. Describe the motion of objects A and B.

A: ______________________________________ **(1 mark)**

B: ______________________________________ **(1 mark)**

b. Calculate the time it would take for object A to cover a distance of 65 m.

(3 marks)

Continued/...

5. a. (i) Define 'electrical resistance.'

(1 mark)

(ii) Calculate the resistance of a bulb in which a voltage of 9V causes a current of 2.5A to flow in it.

(3 marks)

b. Calculate the frequency of red light of wavelength 5.5×10^{-7} m. (Take 3.0×10^{8} m/s as speed of the electromagnetic wave)

(3 marks)

c. Give any **two** properties of magnetic field lines.

(2 marks)

Continued/...

6. a. State any **two** examples of electromagnetic waves.

____

____

(2 marks)

b. Draw a circuit diagram in which a diode, a bulb and a cell are connected in series such that the diode is forward biased.

(3 marks)

c. How does a light dependent resistor work?

____

____

____

(2 marks)

7. a. (i) State the use of Archimedes Principle.

____

____

(1 mark)

(ii) Calculate the weight of the water displaced when a 20 kg mass object immersed in water weighs 13 N.

(3 marks)

Continued/…

7. **(Continued)**

b. A man moved a trolley through a distance of 10 m on a horizontal ground. If he applied a force of 75 N at an angle of 30° to the horizontal, calculate the work done in moving the trolley horizontally.

(3 marks)

8. a. Give any **two** examples of scalar quantities.

____

____

(2 marks)

b. Two forces 40 N and 50 N are acting at an angle of 60° to each other. Using a scale of 1 cm to represent 10 N:

(i) draw a diagram to show the resultant force.

(3 marks)

(ii) find the size of the resultant force.

(2 marks)

Continued/...

9. a. State 'Boyles's law'.

____

____

(1 mark)

b. In an experiment, Form 3 students obtained the readings shown in **Table 1**:

Table 1

Temperature (°C)	-50	-25	0	25	75
Pressure (kPa)	80	90	95	110	125

(i) Plot a graph of 'pressure' against 'temperature' on the graph paper below.

(5 marks)

(ii) What is the relationship between temperature and pressure?

____

____

(1 mark)

Continued/...

10. **a.** **Figure 3** shows an oscillating mass-spring system.

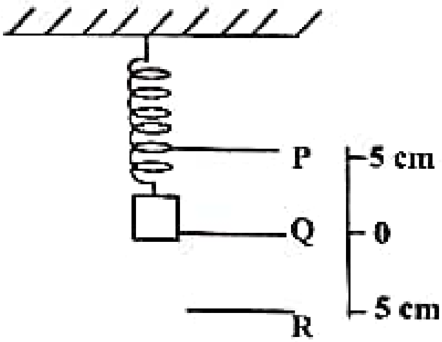

Figure 3

(i) Identify the:

1. amplitude of the oscillating system.

____

(1 mark)

2. equilibrium position of the system.

____

(1 mark)

(ii) If the mass moves from **P** to **R** in 5 seconds, calculate the frequency of the system.

(3 marks)

b. State any **three** applications of circular motion.

____

____

(3 marks)

Continued/...

Section B (30 marks)

Answer all the **three** questions in this section in an essay form in the spaces provided.

11. a. **Figure 4** is a diagram illustrating stages of a ball bearing falling in a jar containing oil.

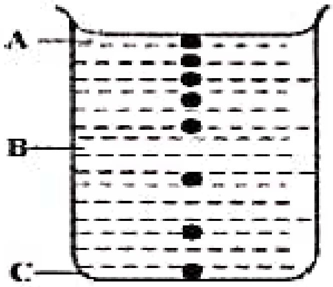

Figure 4

Describe the motion of the ball bearing from **A** to **C**.

(6 marks)

b. Explain the way an optical projector works.

(4 marks)

Continued/...

12. a. Explain how the floating in ships occur.

____

____

____

____

____

____

____

____

____

____

(4 marks)

b. With the aid of a diagram describe the way a dc electric motor works.

____

____

____

____

____

____

____

____

(6 marks)

Continued/…

12. a. Explain how the floating in ships occur.

(4 marks)

b. With the aid of a diagram describe the way a dc electric motor works.

(6 marks)

Continued/...

13. a. How can the stuck glass tumblers be separated?

(5 marks)

b. **Figure 5** is a diagram of a transformer.

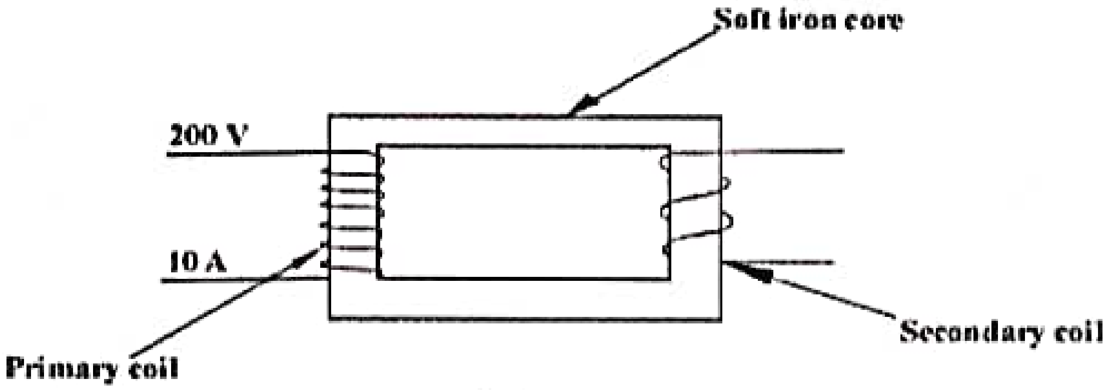
Soft iron core
200 V
10 A
Primary coil
Secondary coil

Figure 5

How does the transformer work?

(5 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.:____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL AND LIFE SKILLS

Subject Number: M192/II

Friday, 7 July

Time Allowed: 2 hours
1:00 – 3:00 pm

PAPER II

(100 marks)

Instructions

1. **This paper contains 8 printed pages. Please check.**
2. There are **three** sections in this paper. **A, B** and **C.** Answer **all** questions in all the **three** sections.
3. Write your **Examination Number** on top of each page of this question paper.
4. In the table provided on this page, **tick** against the question number you have answered.
5. Hand in your filled in question paper to the invigilator when time is called to stop writing.

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Section A (50 marks)

SOCIAL STUDIES

Answer **all** questions in this section in the spaces provided.

1. a. State any **two** responsibilities of pension beneficiaries.

(2 marks)

b. Explain any **two** ways in which pension schemes are important.

(4 marks)

c. Explain any **two** ways in which economic policies are important for a developing nation.

(4 marks)

2. a. State any **two** global challenges faced in 21st century.

(2 marks)

b. Describe any **two** roles of credit reference bureaus in controlling over-indebtedness in a country.

(4 marks)

Continued/…

Section A (50 marks)

SOCIAL STUDIES

Answer **all** questions in this section in the spaces provided.

1. a. State any **two** responsibilities of pension beneficiaries.

____

____

(2 marks)

b. Explain any **two** ways in which pension schemes are important.

____

____

____

____

(4 marks)

c. Explain any **two** ways in which economic policies are important for a developing nation.

____

____

____

____

(4 marks)

2. a. State any **two** global challenges faced in 21st century.

____

____

(2 marks)

b. Describe any **two** roles of credit reference bureaus in controlling over-indebtedness in a country.

____

____

____

____

(4 marks)

Continued/...

4. a. A certain judge of court **X** failed to release herself from hearing a case involving her cousin.

(i) What form of malpractice did the judge commit?

____

(1 mark)

(i) Explain any **two** possible causes of such malpractice.

____

____

____

____

(4 marks)

b. State any **one** way that the international community uses to curb forms of discrimination in the world.

____

(1 mark)

c. Describe any **two** advantages of managing disaster risks in a country.

____

____

____

____

(4 marks)

5. a. State any **two** key elements of population policies of Malawi.

____

____

(2 marks)

b. Explain any **two** ways in which culture is related to development in a country.

____

____

____

____

(4 marks)

Continued/...

5. (Continued)

c. Explain any **two** roles of gender platform of action in promoting gender.

____

____

____

____

(4 marks)

Section B (20 marks)

LIFE SKILLS

Answer **all** the questions in this section in the spaces provided.

6. a. State any **two** ways in which parents can lower self-esteem of their children.

____

____

(2 marks)

b. Explain any **two** ways in which some gender practices promote the spread of HIV and AIDS.

____

____

____

____

(4 marks)

c. Explain any **two** ways in which failure by the government to provide the needs of people may create vulnerability in the society.

____

____

____

____

(4 marks)

Continued/….

7. a. Mr Zagwa acquired a high interest loan from the bank to support his business.

(i) Identify the business risk Mr Zagwa is likely to experience.

____

____

(1 mark)

(ii) Describe any **two** possible outcomes of the risk which Mr Zagwa had taken.

____

____

____

____

(4 marks)

b. Mention any **one** type of preventive medicine.

____

(1 mark)

c. Explain any **two** ways in which self-awareness would help the youth to manage stress and anxiety.

____

____

____

____

(4 marks)

Continued/…

Section C (30 marks)

ESSAYS

Answer all questions in this Section in an essay form in the spaces provided.

8. Explain any five ways in which national service is important.

(15 marks)

Continued/...

9. Explain any five effects of negative peer pressure on morality in the society.

(15 marks)

END OF QUESTION PAPER

NB: This paper contains 8 printed pages.

EXAMINATION NO.:_______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL AND LIFE SKILLS

Subject Number: M192/I

Wednesday, 5 July

Time Allowed: 1 hour
11:30 – 12:30 pm

PAPER I

(50 marks)

Instructions:

1. **This paper contains 8 printed pages. Please check.**
2. The paper has **50** multiple choice questions. Answer all questions. Each question carries 1 mark.
3. Write your **Examination Number** in the spaces provided on all the pages of this question paper.
4. In the table provided on this page, **tick** against the question number you have answered.
5. Hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Do not write in these columns	
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 25		
26 - 30		
31 - 35		
36 - 40		
41 - 45		
46 - 50		
Total		

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Section A (35 marks)

SOCIAL STUDIES

Answer **all** questions by encircling the letter corresponding to the correct answer

1. Civil society institutions empower people at the grass root level by
   A. giving reports on several issues.
   B. enforcing government laws.
   C. sensitising people on elections.
   D. providing economic opportunities.

2. Which of the following are **key** provisions in the Pensions Act?
   1. retiring on the basis of service
   2. creating a mandatory pension scheme
   3. prescribing minimum contribution rates
   4. leaving the country permanently

   A. 1 and 2
   B. 1 and 4
   C. 2 and 3
   D. 3 and 4

3. Which of the following best describes how lack of access to the sea hinders Malawi's economic development?
   A. heavy dependence on agriculture
   B. heavy dependence on imports
   C. high freight charges
   D. low revenue collection

4. Which of the following is the duty of citizens in the electoral process?
   A. organising registration
   B. monitoring campaign activities
   C. promoting infrastructural development
   D. providing essential services

Mr Thauzeni gave the village headman a chicken so that he should be included on the list of beneficiaries of subsidy inputs programme. Use this information to answer questions **5** and **6**.

5. What form of social injustice was Mr Thauzeni involved?
   A. nepotism
   B. bribery
   C. favouritism
   D. discrimination

6. Which of the following would be the result of the act done by Mr Thauzeni?
   A. promotes poverty
   B. encourages tribalism
   C. lack of good governance
   D. unequal distribution of resources

7. Why should decentralisation be accompanied by local elections?
   A. to uncover institutional capacity
   B. to increase information flow
   C. to highlight misconduct
   D. to adopt policies

Continued/...

A certain court found Mr. Kankhuku guilty of stealing a goat before hearing from the victim. Use this information to answer questions **8** and **9.**

8. On which of the following basis was Mr. Kankhuku punished?
- A. discrimination
- B. prejudice
- C. nepotism
- D. extortion

9. Which of the following would be a cause of the judgment by the court?
- A. ignorance
- B. resentment
- C. insecurity
- D. anxiety

10. Which of the following is **not** a challenge in the implementation of legal instruments for special groups?
- A. shortage of resources
- B. traditional values
- C. social attitudes
- D. lack of civic education

11. Which of the following are responsibilities of members of parliament?
- A. making and enforcing laws
- B. enforcing laws and drafting bills
- C. discussing bills and making laws
- D. drafting and discussing bills

12. Which of the following best describes the effects of disasters on a community?
- A. psychological trauma
- B. loss of life
- C. loss of home
- D. disruption of social services

13. Local assemblies promote public health through
- A. inspecting food preparation premises.
- B. managing food preparation companies.
- C. providing business licenses.
- D. maintaining bus shelters and depots.

14. Which of the following is common to both federal and confederation systems of government?
- A. ruled by a king
- B. made up of a single state
- C. ruled by a prime minister
- D. made up of different states

15. Which of the following variables will the central bank tamper with to control the amount of money in supply?
- A. real income
- B. discount rate
- C. price of goods
- D. equilibrium interest

16. Which of the following is a role of citizens in economic sustainability?
- A. preference for quantity to quality
- B. reducing economic wastage
- C. increasing economic viability of businesses
- D. preference of imports to local goods

Continued/...

Mrs. Mbuna was told by her friends that her husband had a girlfriend. Later she informed her husband on the rumour who got angry and beat her. Use this information to answer questions **17** and **18.**

17. Which of the following attitudes did Mrs. Mbuna show towards the rumour?
A. untrustworthiness
B. fidelity
C. perseverance
D. mutual care

18. Which of the following factors for preserving marriage is seen to be absent through Mr. Mbuna's reaction to the rumour?
A. honesty
B. forgiving
C. endurance
D. love

19. Which of the following is a quality of responsible parenthood?
A. cooperation
B. attunement
C. unity
D. refinement

20. In the past people used to offer sacrifices in order to have rains. This practice stopped because
A. there are no rain making shrines.
B. it is barred by the constitution.
C. sacrifices degrade the environment.
D. of the coming in of other forms of religion.

21. Which of the following challenges of revenue collection involves deliberately charging less duty by revenue officers?
A. smuggling
B. under-evaluation
C. under-declaration
D. trafficking

22. Zakwathu cultural troupe performs dances from different ethnic groups in Malawi. What is the importance of this practice?
A. It promotes understanding of other people's culture.
B. It promotes intermarriages.
C. Old traditions are restored.
D. It leads to the formation of other dancing groups.

23. Which of the following are conventions on gender in Malawi?
1. Beijing Platform of Action
2. Women World Banking
3. Women in Development
4. Dakar Platform for Action

A. 1 and 2
B. 1 and 4
C. 2 and 3
D. 3 and 4

24. Sustainable development is important because
A. it encourages exploitation of the surrounding.
B. it brings about high production.
C. it helps reduce wastes.
D. it helps in the promotion of modern technology.

Continued/...

The Finance Minister of country **X** announced that 59% of the year's budget will be sourced from bilateral relations. Use this information to answer questions **25** and **26.**

25. Which of the following is true about country **X**?
A. high population growth
B. dependence on foreign aid
C. high levels of debt
D. inadequate social services

26. Which of the following is essential for reasonable economic development in country **X**?
A. agricultural development
B. human resource development
C. social service development
D. sustainable development

27. Which of the following is achieved when labour laws are used to guide government policy?
A. inspiration
B. social justice
C. world peace
D. competition

28. Which of the following are effects of refugees to a host country?
1. disintegration of families
2. loss of cultural identity
3. pressure on social services
4. increased cases of robberies

A. 1 and 2
B. 1 and 3
C. 2 and 4
D. 3 and 4

War broke out between countries **Z** and **T** because country **Z** was testing the strength of its weapons. Use this information to answer questions **29** and **30.**

29. Which of the following is associated with this type of war?
A. lust of power
B. economic power
C. political supremacy
D. political differences

30. Which of the following would be the effect of the war in country **T**?
A. wastage of resources
B. emergence of epidemic diseases
C. immigration of people
D. political instability

31. Desmond Tutu is renowned for
A. non-violent protest.
B. pan-Africanism.
C. reconciliation.
D. negotiation.

32. An organisation is fighting for the rights of adolescents in using contraceptives to avoid unwanted pregnancies

Under which population policy implementation programme do the actions of organisation fall?
A. advocacy
B. reproductive health
C. gender
D. safe motherhood

Continued/...

33. Which of the following is a positive attitude towards the environment?
A. setting bush fires
B. culling excess animals
C. cultivating along the river banks
D. wanton cutting down of trees

34. Which of the following is an area of world cooperation?
A. religious beliefs
B. refugee crisis
C. international agreements
D. international organisations

35. Which of the following is the role of traditional leaders in implementation of population policy?
A. being champions of family planning
B. assisting with financial resources
C. ensuring supply of family planning services
D. conducting research to identify key issues

Section B (15 marks)

LIFE SKILLS

36. Which of the following does **not** describe social responsibility?
A. offering opportunities to low income people
B. donating money to charities
C. donating items to needy people
D. serving privileged people

37. Having a positive attitude to one's problem is one of the ways of
1. raising self-esteem
2. lowering self-esteem
3. managing stress
4. showing assertiveness

A. 1 and 2
B. 1 and 3
C. 2 and 4
D. 3 and 4

Mabvuto impregnated Tadala. After two months, Mabvuto advised her to terminate the pregnancy for them to continue schooling. Use this information to answer questions 38 and 39.

38. What problem is Tadala facing?
A. premarital sex
B. moral dilemma
C. abortion
D. adolescence

39. How can Tadala deal with the situation involved?
A. self-awareness
B. decision making
C. empathy
D. family planning

Continued/...

40. Which of the following factors would lower one's self esteem?
A. lack of recognition from peers
B. perseverance
C. acceptance among peers
D. peer pressure

41. Which of the following is **not** a way of dealing with problems associated with physical development?
A. doing exercises
B. drinking a lot of water
C. eating a lot of food
D. observing hygiene

Tinyade is a student at a certain secondary school. She lives with her uncle who always demands sex as a reward for support provided to her. Use this information to answer questions **42** and **43**

42. Which form of sexual abuse is being practiced by Tinyade's uncle?
A. rape
B. defilement
C. incest
D. transactional

43. How could this behaviour affect Tinyade's life?
1. trauma
2. excitement
3. poor performance
4. easy maturity

A. 1 and 3
B. 1 and 4
C. 2 and 3
D. 2 and 4

44. Which of the following health services involves treatment of diseases?
A. family planning
B. counselling
C. rehabilitation
D. curative

45. Which of the following is a reason that makes drug abusers vulnerable to HIV infection?
A. low economic status
B. impaired judgment
C. low education levels
D. lack of morals

46. Which of the following factors is **not** considered when identifying a blood donor?
A. age
B. health
C. gender
D. weight

47. Nanyoni keeps money in her house although she was advised to open a bank account.

Which of the following would help Nanyoni change her mind set to ensure safety of her money?
A. adult literacy
B. basic education
C. saving culture
D. financial literacy

48. Which of the following can help in improving customer service?
A. attracting many customers
B. providing quality goods
C. offering reasonable prices
D. advertising the services

Continued/...

49. Which of the following is the best searching tool for a career?
    A. application letter
    B. academic qualification
    C. reference letter
    D. curriculum vitae

50. Which of the following is a way of recovering property lost due to unforeseen circumstances in business?
    A. obtaining mortgage with insurance company
    B. acquiring loan from money lending institutions
    C. insuring with the insurance company
    D. buying shares at stock exchange

END OF QUESTION PAPER

NB: This paper contains 8 printed pages.

EXAMINATION NO.: ____________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/II

Wednesday, 12 July

Time Allowed: 2 hours
1:30 – 3:30 pm

PAPER II

(100 marks)

HUMAN AND ECONOMIC GEOGRAPHY

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. This paper has **5** questions. Answer the questions in the spaces provided.
3. The paper has **two** sections **A** and **B**. Follow the instructions for each section carefully.
4. Write your **Examination Number** on top of each page of the question paper.
5. In the table provided on this page **tick** against the question number you have answered.
6. Hand in your **question paper** to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
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5			

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Turn over

Section A (75 marks)

Answer **all** the questions in this section in the spaces provided.

1. a. (i) Name any **two** districts in Malawi where tea is grown.

____

____

(2 marks)

(ii) Describe any **two** climatic conditions which influence tea farming in Malawi.

____

____

____

____

(4 marks)

(iii) State any **two** ways in which shade is important in tea gardens.

____

____

(2 marks)

b. With the aid of a flow diagram describe the stages in the processing of tea.

____

____

____

____

____

(8 marks)

Continued/…

1. (Continued)

c. (i) Mention any **two** sources of water for irrigation farming in Israel.

(2 marks)

(ii) Explain any **two** challenges faced by Israel when sourcing water for irrigation.

(4 marks)

d. State any **three** factors which hinder the development of irrigation farming in Malawi.

(3 marks)

a. (i) Give any **one** example of trade blocks to which Malawi is a member at each of the following scales:

(1) regional

(1 mark)

(2) global

(1 mark)

(ii) State any **two** aims of Southern Africa Development Community.

(2 marks)

Continued/...

2. a. **(Continued)**

(iii) Explain any **two** benefits of trade agreements.

____

____

____

____

____

______________________________ **(4 marks)**

b. (i) Name any **one** tourist attraction site in East Africa.

______________________________ **(1 mark)**

(ii) Describe any **two** major physical factors promoting tourism in Africa.

____

____

____

____

____

______________________________ **(4 marks)**

c. (i) State any **two** international agreements on climate change which have been ratified by Malawi.

____

____

____

______________________________ **(2 marks)**

Continued/..

2. c. (Continued)

(ii) Explain any **two** human causes of climate change.

(4 mark)

d. **Figure 1** is a map of Southern Africa showing the distribution of railway lines.

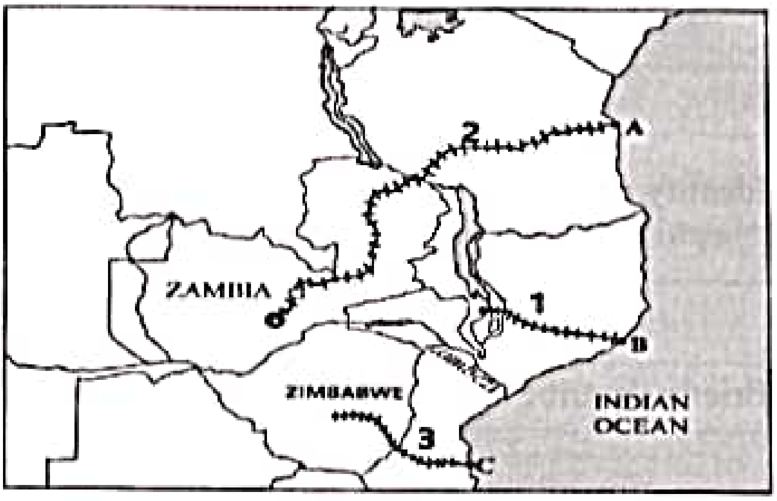

Figure 1

(i) Name the railway lines labelled **1** and **2**.

1. ______________________________ **(1 mark)**

2. ______________________________ **(1 mark)**

(ii) Explain any **two** challenges faced by land locked countries in southern Africa when using the rail routes shown on the map.

(4 marks)

Continued/…

3. a. **Figure 2** is a diagram showing the production process of energy. Use it to answer questions that follow.

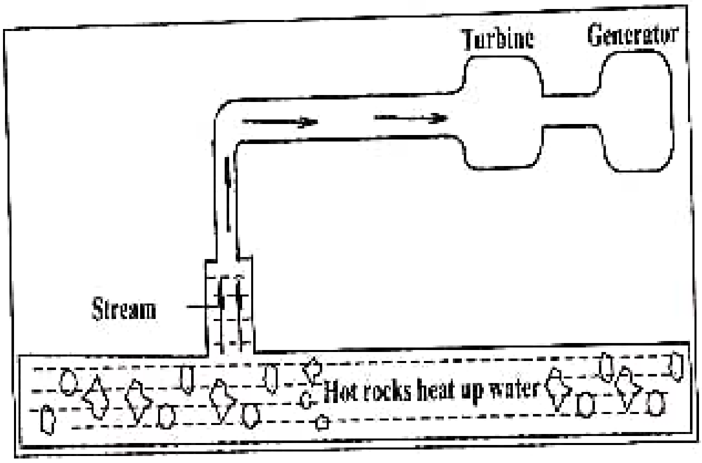
Turbine
Generator
Stream
Hot rocks heat up water

Figure 2

(i) Identify the energy being produced.

____ **(1 mark)**

(ii) Briefly describe the energy production process shown in the diagram.

____

____

____

____

____ **(4 marks)**

(iii) Explain any **two** challenges which the production of energy shown in the diagram faces.

____

____

____

____ **(4 marks)**

Continued/..

3. (Continued)

b. Describe the following methods of mining:

(i) adit

____

____

____

(3 marks)

(ii) open cast

____

____

____

(3 marks)

c. Explain any **two** ways in which petroleum drilling, impacts the environment negatively.

____

____

____

____

(4 marks)

d. State any **two** advantages of transporting petroleum using pipelines.

____

____

(2 marks)

e. Explain any **two** roles of the Organisation of Petroleum Exporting Countries.

____

____

____

____

____

(4 marks)

Continued/...

Section B (25 marks)

Answer **one** question only from this section in the spaces provided.

4. a. (i) State any **two** factors which promote the development of dispersed settlements.

____

____

(2 marks)

(ii) Describe any **two** advantages of dispersed settlements.

____

____

____

____

____

(4 marks)

(iii) Explain any **two** challenges associated with dispersed settlements.

____

____

____

____

____

(4 marks)

b. Explain any **two** negative implications of ageing population.

____

____

____

____

____

(4 marks)

Continued/..

4. **(Continued)**

c. **Figure 3** is an illustration of the Demographic Transitional model.

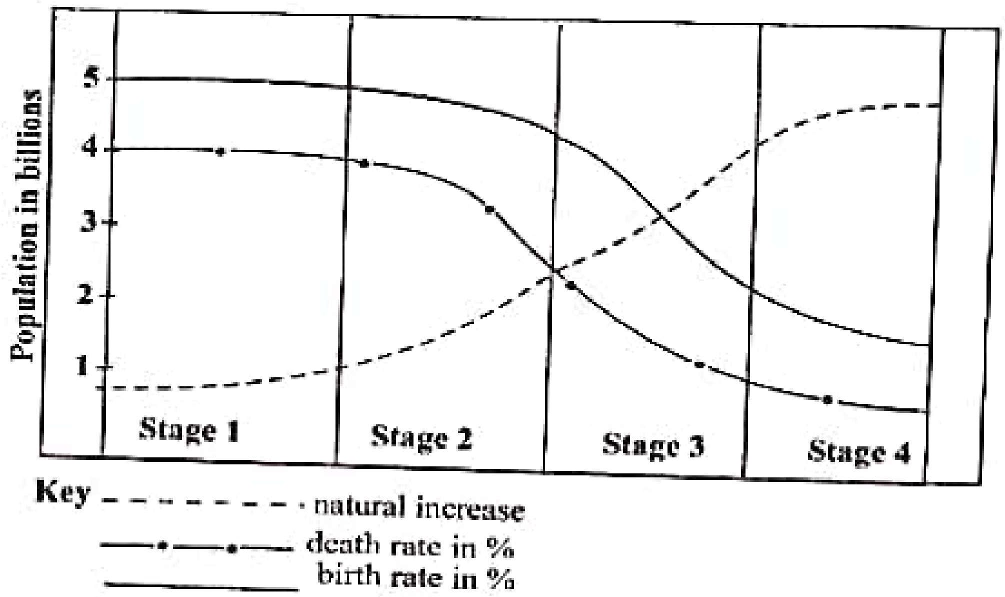

Figure 3

(i) Name each of the following stages:

1. stage **2**.

____ **(1 mark)**

2. stage **3**.

____ **(1 mark)**

(ii) State any **three** causes of high death rates in **Stage 1**.

____

____

____ **(3 marks)**

(iii) Why is **Stage 4** called Low Stationary Stage?

____

____ **(2 marks)**

Continued/...

4. c. **(Continued)**

(iv) Explain any **one** cause of each of the following demographic patterns occurring in **Stage 3**:

1. low death rates

____

____ **(2 marks)**

2. decreasing birth rates

____

____ **(2 marks)**

5. a. Explain how each of the following strategies helps to control urbanisation problems:

(i) vertical expansion of buildings

____

____ **(2 marks)**

(ii) rural industrialisation

____

____ **(2 marks)**

b. (i) Draw a diagram showing the functional zones of an urban area using the Concentric Zonal model. **(2 marks)**

Continued/...

5. b. **(Continued)**

(ii) On the diagram label the following:

1. transitional zone **(1 mark)**
2. industrial zone **(1 mark)**
3. commuter zone **(1 mark)**

c. **Figure 4** is a map of Africa showing some of the densely populated regions. Use it to answer questions that follow.

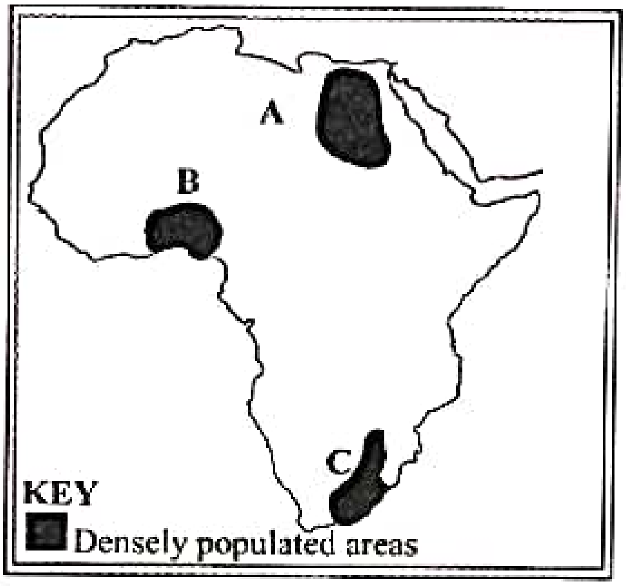

Figure 4

(i) Name any two densely populated cities which are located in the region labelled **B**.

____

____

(2 marks)

(ii) Describe any **two** factors influencing high population density in region labelled **A**.

____

____

____

____

(4 marks)

Continued/…

5. c. **(Continued)**

(iii) Explain any **two** challenges associated with high population density in the region marked **C**.

(4 marks)

d. (i) State any **two** economic problems associated with rapid population growth.

(2 marks)

(ii) Explain how each of the following strategies helps to control rapid population growth:

1. family planning

(2 marks)

2. civic education

(2 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.:_______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

AGRICULTURE

Subject Number: M012/I

Time Allowed: 2 hours
8:00 – 10:00 am

Monday, 5 September

PAPER I

(100 marks)

Theory

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. This paper has **two** sections, **A** and **B**. Section **A** has **ten** questions and Section **B**, **three** questions.
3. Answer **all** questions in the spaces provided.
4. Write your **Examination Number** on **all** pages.
5. In the Table provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
1			
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	Total		

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Section A (70 marks)

Answer all questions in this section in the spaces provided.

1. a. Give any **one** limitation of solar power on a farm.

____

____

(1 mark)

b. State any **two** ways in which agricultural infrastructure agencies support livestock farmers in Malawi.

____

____

____

____

(2 marks)

c. State any **two** ways in which land drainage is important in crop production.

____

____

____

____

(2 marks)

d. State any **two** functions of living organisms in the soil.

____

____

____

____

(2 marks)

e. Explain any **two** ways in which trading of agricultural commodities at community level is important.

____

____

____

____

(4 marks)

Continued/...

2. a. Describe **one** way of achieving each of the following fruiting management in mushroom production:

(i) monitoring spawn

____

____

____

(2 marks)

(ii) watering

____

____

____

(2 marks)

b. Explain any **one** way in which soils with good consistency influences crop production.

____

____

____

____

(2 marks)

3. a. State any **two** factors that make a machine reach the scrap value earlier.

____

____

____

____

(2 marks)

Continued/…

3. **(Continued)**

b. A farmer purchases a ridger amounting to K240,000 with a provisional annual depreciation of 20%.

(i) Calculate the value of the ridger after 3 years using reduced balanced method.

(4 marks)

(ii) State any two benefits of knowing depreciation rate of the ridger to a farmer.

____

____

____

____

(2 marks)

Continued/...

4. a. Describe the first **two** steps that are followed when establishing furrow irrigation.

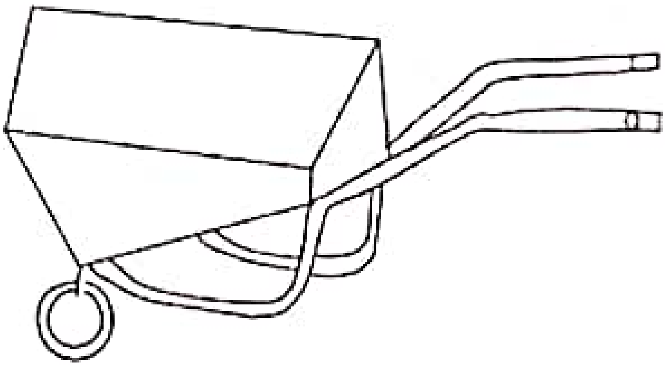
____

____

____

(4 marks)

b. The **figure below** is a diagram showing a farm implement.



(i) Name the farm implement.

____

(1 mark)

(ii) Give any **one** use of the farm implement in crop production.

____

(1 mark)

(iii) State **one** reason for commonly using the farm implement in Malawi.

____

____

(2 marks)

5. a. State any **two** steps that are involved when preparing a site for transplanting mango seedlings.

____

____

____

(2 marks)

b. A farmer observed the following symptoms of mango disease more in wet weather than in dry weather.

- White powder growth on leaves and young fruits.
- Curled young leaves.

(i) Identify the disease.

____

(1 mark)

(ii) Give **one** way of controlling the disease.

____

____

(1 mark)

(iii) Give **one** reason for the appearance of more symptoms of the disease in wet weather than in dry weather.

____

____

(2 marks)

6. a. Give any **two** aims of chicken improvement.

____

____

(2 marks)

b. Describe the relationship between demand and supply in a market.

____

____

____

____

(2 marks)

Continued/...

7. a. Explain any **one** way in which farm budgeting is important.

(2 marks)

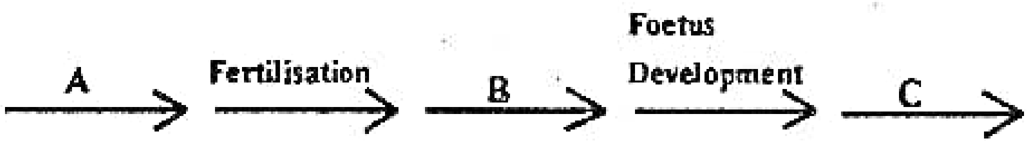
b. State **one** disadvantage of inbreeding in livestock.

(1 mark)

c. Name any **two** examples of goat breeds used for milk production.

(2 marks)

8. a. The **flow diagram below** shows some processes in the reproduction of cattle.



(i) Name the processes **A** and **B**.

A ______________________________ **(1 mark)**

B ______________________________ **(1 mark)**

(ii) State any **two** signs of process **C** in a cow.

(2 marks)

Continued/...

8. (Continued)

b. State any **two** ways in which agro based industries encourage farmers to produce high quality produce.

____

____

____

____

(2 marks)

9. a. The **Table below** shows results of an experiment on maize yield using different systems of irrigation.

Plot	System of Irrigation	Maize Yield (kg)
1	overhead	3500
2	drip	4000
3	surface	3200

(i) Identify the type of irrigation that would be recommended to a farmer.

____

(1 mark)

(ii) Give a reason for the answer in **b (i)**.

____

____

(1 mark)

(iii) State any **two** variables that were kept constant in the experiment.

____

____

(2 marks)

(iv) Explain **one** way in which results from the experiment would be evaluated.

____

____

____

(2 marks)

Continued/…

9. **(Continued)**

b. Explain any **two** factors to consider when feeding cattle.

____

____

____

____

(4 marks)

10. a. A farmer observed a sudden colour change of mycelium from white to green during mushroom fruiting.

(i) Give any **two** causes of the colour change of the mycelium.

____

____

____

(2 marks)

(ii) Mention any **two** ways of controlling the situation.

____

____

____

____

(2 marks)

b. State any **two** activities which are done in crop improvement.

____

____

____

____

(2 marks)

Continued/…

Section B (30 marks)

Answer all the **three** questions in this section.
Your answers should be in an essay form.

11. Explain any **five** characteristics of cows to be selected for breeding.

(10 marks)

Continued/…

12. Explain any **five** ways in which conservation agriculture would deal with climate change.

(10 marks)

Continued/…

13. Describe any **five** factors that affect pasture seed rate.

(10 marks)

END OF QUESTION PAPER

This paper contains 12 printed pages.

EXAMINATION NO.:________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

BIOLOGY

Subject Number: M022/I

Tuesday, 6 September

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. Before you begin, **write** your **Examination Number** at the top of each page of the question paper.
3. This paper has **two** sections, **A** and **B**. Section **A** has **ten** questions and Section **B** has **three** questions.
4. Answer all the 13 questions in the spaces provided. The maximum number of marks for each answer is indicated against each question.
5. In the table provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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13			
	Total		

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Section A (70 marks)

Answer **all** the **ten** questions in this section.

1. a. (i) Define residual air.

____
(1 mark)

(ii) State the importance of residual air in the lungs.

____
(1 mark)

(iii) Describe how breathing rate is regulated by the medulla oblongata.

____
____
____
____
____
____
____
(5 marks)

b. Explain any **one** way through which the skin regulates body temperature.

____
____
(2 marks)

Continued/…

Section A (70 marks)

Answer **all** the **ten** questions in this section.

1. a. (i) Define residual air.

____

(1 mark)

(ii) State the importance of residual air in the lungs.

____

(1 mark)

(iii) Describe how breathing rate is regulated by the medulla oblongata.

____

____

____

____

____

____

____

(5 marks)

b. Explain any **one** way through which the skin regulates body temperature.

____

____

(2 marks)

2. a. **Figure 1** is a diagram showing a section of a spinal cord.

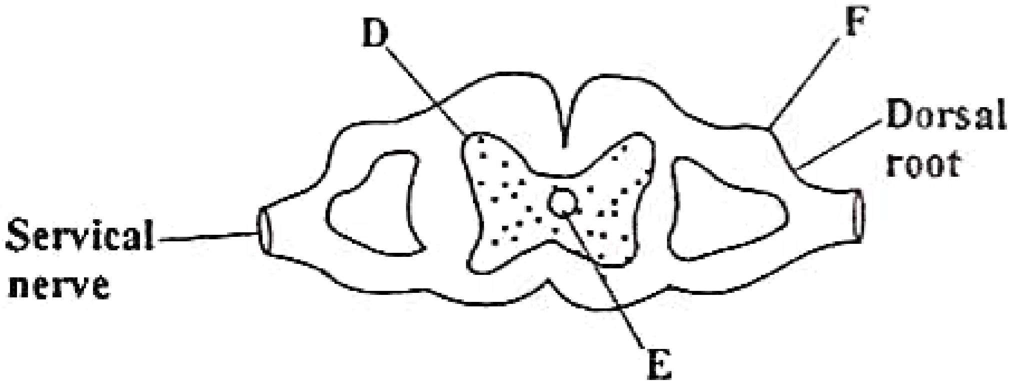
D
F
Dorsal root
Servical nerve
E

Figure 1

(i) Name the parts labelled **D** and **F**.

D: ______________________________ **(1 mark)**

F: ______________________________ **(1 mark)**

(ii) Mention any **two** functions of the fluid found in part labelled **E**.

____

____

____

(2 marks)

b. Give any **two** functions of the spinal cord.

____

____

____

(2 marks)

Continued/…

3. a. **Figure 2** shows a food web.

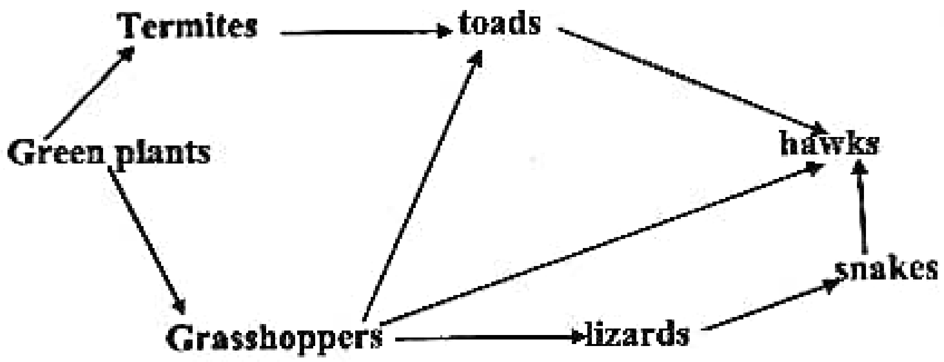
Termites
toads
Green plants
hawks
snakes
Grasshoppers
lizards

Figure 2

(i) From the food web, construct a food chain with five organisms.

(5 marks)

(ii) Name the trophic level occupied by toads.

____

(1 mark)

b. Describe any **one** adaptation of fish to locomotion.

____

____

(2 marks)

Continued/...

3. (Continued)

c. A scientist crossed pure breeding rats with black hair with pure breeding rats with white hair. The resulting F_1 rats were all with black hair.

Taking B for dominant gene and b for recessive gene, make a genetic cross to show the results of mating the F_1 generation

(6 marks)

4. a. A biologist studying animal population discovered that there were many green mambas in a rain forest than black mambas and there were several nests of hawks.

(i) Explain what is causing the differences in populations between the two types of snakes.

____

____

____

____

____

(3 marks)

(ii) State the term that is used to describe the situation in **4 a (i)** above.

____

(1 mark)

Continued/…

4. **(Continued)**

(iii) Mention any two causes of speciation.

____

____

(2 marks)

b. State any one application of biotechnology in Agriculture.

____

____

(1 mark)

5. a. Explain any one way in which glucose is used after photosynthesis.

____

____

____

____

(2 marks)

b. (i) Describe any one type of water plants.

____

____

____

____

(2 marks)

(ii) Explain any one adaptation of hydrophytes to their habitat.

____

____

____

____

(2 marks)

Continued/…

6. a. (i) State any **two** types of immunity.

____

____

(2 marks)

(ii) What type of immunity does a baby get from breast milk?

____

(1 mark)

(iii) Explain the characteristic of the immunity mentioned in **6 a (ii)** above.

____

____

(2 marks)

b. (i) Mention any **one** sexually transmitted infection caused by bacteria.

____

(1 mark)

(ii) State any **one** effect of sexually transmitted infections on an individual.

____

____

____

____

(1 mark)

7. The body mass of 14 babies that were born at a certain health centre were recorded and it was noted that 5 babies weighed 1.5 kg, 6 babies weighed 1.8 kg and 3 babies weighed 2.5 kg.

a. Present the information in a table form.

(3 marks)

Continued/…

7. **(Continued)**

b. Calculate the mean mass of the babies.

(3 marks)

8. The **Figure 3** shows an example of a micro-organism.

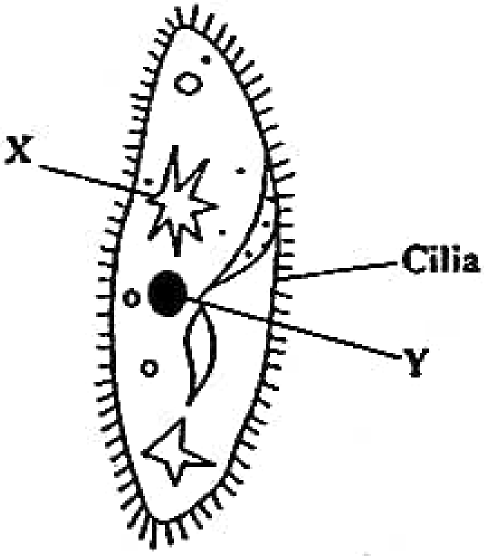

Figure 3

a. Identify the micro-organism.

____

(1 mark)

b. Name the part labelled **X**.

____

(1 mark)

c. Name the habitat of the organism.

____

(2 marks)

d. Mention the function of the part labelled **Y**.

____

(1 mark)

Continued/...

9. Explain the **two** problems that may arise if maternal and foetal blood mixes during pregnancy.

____

____

____

(4 marks)

10. a. Explain **one** way in which each of the following provides evidence of evolution.

(i) comparative anatomy:

____

____

____

____

(2 marks)

(ii) embryology:

____

____

____

____

(2 marks)

b. Describe any **one** evidence that show natural selection in action.

____

____

____

(2 marks)

Continued/...

Section B (30 marks)

Answer all the three questions in this section. Your answers should be in an essay form.

11. Describe how Pavlov showed conditioned reflex using his experiment on dogs.

(10 marks)

Continued/…

12. Describe the process of blood clotting.

(10 marks)

Continued/...

13. Describe any **five** ways of controlling cancer disease.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

CHEMISTRY

Subject Number: M038/I

Tuesday, 13 September

Time Allowed: 2 hours
2:00 – 4:00 pm

PAPER I

(100 marks)

Theory

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. Write your **Examination Number** at the top of each page of this paper.
3. This paper contains two sections, **A** and **B.**
4. Answer all the **thirteen** questions in the spaces provided on each question.
5. Use of electronic calculators is allowed.
6. The maximum number of marks for each answer is indicated against each question.
7. In the table provided on this page, tick against the number of the question you have answered.
8. Hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in this section.

1. a. Table 1 shows formulae and the boiling points of isomeric alkanes.

Table 1

Isomer	Formula	Boiling point (°c)
A	$CH_3CH_2CH_2CH_3$	- 0.5
B	$CH_3CH(CH_3)CH_3$	- 10

(i) Name the isomers A and **B.**

A

____

B

____

(2 marks)

(ii) Explain why isomer **B** has a lower boiling than A.

____

____

____

(2 marks)

b. Give any **three** natural sources of water.

____

____

____

(3 marks)

2. a. Give any **two** disadvantages of landfills as a way of disposing waste.

____

____

(2 marks)

Continued/...

2. **(Continued)**

b. **Figure 1** is a graph showing results of heating of a pure substance.

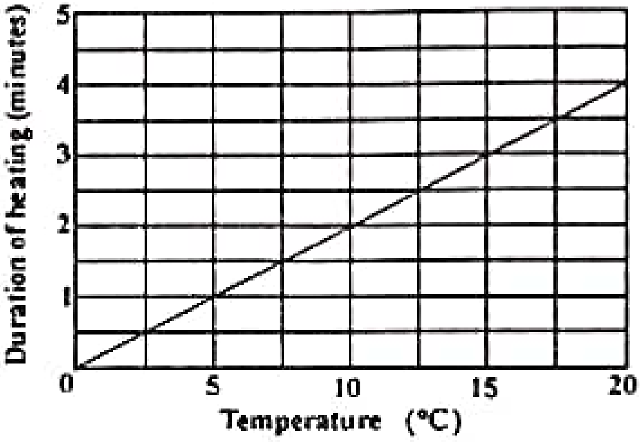

Figure 1

(i) What was the temperature when the time was 3 minutes?

____

(1 mark)

(ii) Identify the dependent variable in the experiment.

____

(1 mark)

(iii) What relationship can be drawn from the results on the graph?

____

____

(2 marks)

3. a. Why is phosphorus stored under water?

____

(1 mark)

b. Give any **four** uses of phosphoric acid.

____

____

____

____

(4 marks)

Continued/...

3. **(Continued)**

c. Give any **three** differences between ionic and covalent compounds.

____

____

____

(3 marks)

4. a. Explain the depletion of ozone layer.

____

____

____

____

(4 marks)

b. **Figure 2** is a diagram showing a covalent bond.

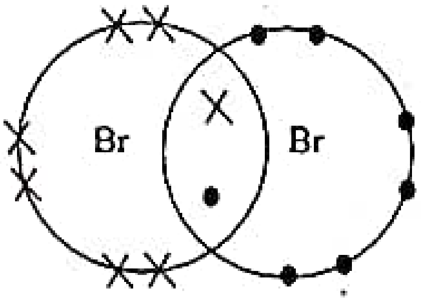

Figure 2

Why is the bond called a non-polar covalent bond? Give any **two** reasons.

____

____

____

____

(2 marks)

Continued/…

5. a. Define the term "polymerization".

____

____

(1 mark)

b. Complete the equation in **Figure 3**.

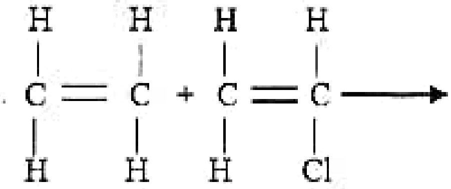

Figure 3

(1 mark)

c. Name the polymer formed in **5.b**.

____

(1 mark)

d. Draw the structure of 2-methylpropan –2– ol.

(3 marks)

6. **Figure 4** shows different structures of organic compounds.

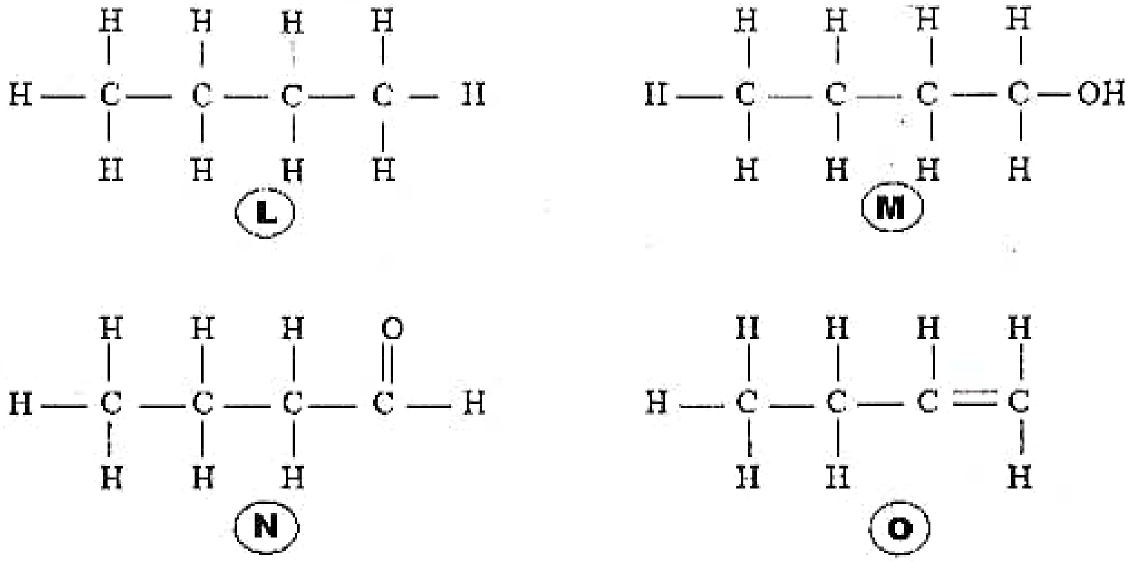

Figure 4

a. Which compounds are hydrocarbons?

____

____

(2 marks)

b. Explain why compound **M** has a higher boiling point than **L**?

____

____

____

____

____

____

(3 marks)

Continued/…

6. **(Continued)**

c. Describe how compound N can be distinguished from compound L.

____

____

____

____

____

____

(5 marks)

7. a. Mention the type of oxide that is formed when metals react with oxygen.

____

(1 mark)

b. Calculate the empirical formula of a compound that has the following composition: Na = 37.1%, C = 9.7%, O = 38.7%, H_2O = 14.5%.
(RAM: Na = 23, C = 12, O = 16, H = 1)

(5 marks)

Continued/...

8. a. Define the term "displacement reaction".

____

____
(1 mark)

b. State any two applications of electroplating.

____

____
(2 marks)

c. (i) How can purity of a substance be determined using standardized chromatography?

____

____

____

____

____
(3 marks)

(ii) How does a person smell perfume from a neighbouring friend?

____

____

____

____

____
(3 marks)

9. a. Define the term "standard solution".

____

____
(1 mark)

Continued/...

9. **(Continued)**

b. In a titration, 10 cm^3 of sulphuric acid (H_2SO_4) was required to neutralize 10 cm^3 of a 0.05M sodium hydroxide (NaOH) solution mixed with phenolphthalein solution.

(i) What is the function of phenolphthalein solution in the reaction?

____

(1 mark)

(ii) Write a balanced chemical equation for the reaction.

(2 marks)

(iii) Calculate the molarity of the sulphuric acid (H_2SO_4) solution.

(2 marks)

10. a. A student gently heated 250 g of hydrate copper sulphate crystals until she got a constant mass of 160 g of the copper sulphate.

(i) Calculate the number of moles of water found in the hydrated copper sulphate crystals (RAM: H = 1, O = 16)

(3 marks)

(ii) Write the chemical formula of the hydrated copper sulphate.

____

(1 mark)

Continued/...

10. **(Continued)**

b. Give any **two** sources of alkanoates.

____

____

(2 marks)

Section B (30 marks)

Answer all the questions in this section.

11. a. Describe how water hardness can be removed using distillation.

____

____

____

____

____

____

____

(5 marks)

b. Describe an experiment that can be carried out to show that the dissolving of ammonium chloride in water is an endothermic reaction.

____

____

____

____

____

____

____

(5 marks)

Continued/...

12. Describe how butanal can be distinguished from 2–butanone using Fehling test.

(10 marks)

Continued/…

13. Explain how an acid-base indicator can be prepared from hibiscus flowers.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/I

Monday, 5 September

Time Allowed: 1 h 45 min
1:30 – 3:15 pm

PAPER I

(70 marks)

Instructions

1. **This paper contains 10 printed pages. Please check.**
2. The paper has **two** sections; **A** and **B**. In Section **A**, answer **all** questions by encircling the letter representing the right answer. In Section **B**, answer only **one** question in the spaces provided on the question paper.
3. Write your **Examination Number** on all pages of this question paper.
4. In the table provided on this page, **tick** against the question number you have answered.
5. **At the end of the examination, hand in your paper to the invigilator.**

Question Number	Tick if answered	Do not write in these columns		Marker's Name
1 - 30				
31				
32				
	Total			

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Section A (30 marks)

Answer **all** questions in this section by encircling the letter representing the right answer to each question.

In questions 1 – 18, choose the answer **(A, B, C, or D)** that best completes the sentence.

1. He had never participated in any competition, ______?
A. had he
B. hadn't he
C. has he
D. hasn't he

2. Let us pray, ______?
A. shall we
B. shan't we
C. do we
D. don't we

3. The girls are enjoying themselves, ______?
A. do they
B. don't they
C. are they
D. aren't they

4. The boys were soaked ______the rain.
A. with
B. by
C. from
D. in

5. The hunter aimed ______a huge Zebra in the forest.
A. at
B. to
C. on
D. against

6. Most companies are now complying ______the country's taxation laws.
A. by
B. with
C. in
D. to

7. Chibale was advised to desist ______ confrontation.
A. with
B. in
C. from
D. by

8. The disease is peculiar ______ humid areas.
A. in
B. with
C. to
D. at

Continued/...

9. Mbonekera has been entrusted ______ a huge responsibility.
A. to
B. by
C. over
D. with

10. The newly elected party leader stood on a beautiful ______ to deliver his speech.
A. altar
B. podium
C. dock
D. pulpit

11. The injured people are still on the ______ of the accident.
A. scene
B. site
C. location
D. place

12. The pastor enjoyed preaching to a lively ______.
A. class
B. congregation
C. audience
D. clientele

13. Makala ______ building the wall by Friday, next week.
A. will finish
B. will have finished
C. could have finished
D. finishes

14. Maloya ______ a walk every evening.
A. takes
B. will take
C. is taking
D. will be taking

15. When we returned, she ______ for three hours.
A. has been sleeping
B. was sleeping
C. will have been sleeping
D. had been sleeping

16. Fatsani ______the man who stole her watch.
A. ran across
B. ran along
C. ran around
D. ran off

17. They were told to______ against any form of oppression.
A. stand out
B. stand up
C. stand off
D. stand in

18. The team was implored not to ______ any hope of being rescued.
A. give away
B. give up
C. give in
D. give out

Continued/...

In questions 19 - 22 choose the answer **(A, B, C or D)** that best describes the underlined part of speech.

19. You will find him provided you come early.
A. adverb
B. verb
C. conjunction
D. adjective

20. The celebration cloth was very beautiful.
A. noun
B. adjective
C. pronoun
D. adverb

21. We tried hard to convince her.
A. adverb
B. noun
C. adjective
D. conjunction

22. The farmers sell their produce at the local market.
A. adjective
B. noun
C. verb
D. adverb

In questions 23 – 26 choose the order of adjectives **(A, B, C or D)** that best completes the sentences.

23. Bring that ______ basin to me.
A. big black rectangular
B. black big rectangular
C. rectangular big black
D. big rectangular black

24. The meeting was chaired by ______ chief.
A. a wise African old
B. a wise old African
C. an African old wise
D. an old African wise

25. The students chose ______ boy as their prefect.
A. a talkative short Malawian
B. a short talkative Malawian
C. a talkative Malawian short
D. a short Malawian talkative

26. The teacher wore a ______ pair of shoes.
A. white flat beautiful modern
B. modern beautiful white flat
C. beautiful white flat modern
D. flat beautiful white modern

Continued/...

In questions 27 - 30 choose the option **(A, B, C or D)** that best describes and gives the function of the underlined phrase or clause.

27. The storm has destroyed the barn where we store our maize.
- A. adjective phrase, qualifying 'barn'
- B. adjective clause, qualifying 'barn'
- C. adverb clause, modifying 'has destroyed'
- D. adverb phrase modifying 'has destroyed'

28. Performing his new play, the actor looked excited.
- A. noun clause, subject of 'looked'
- B. adjective phrase, qualifying 'the actor'
- C. noun phrase, subject of 'looked'
- D. adjective clause, qualifying 'the actor'

29. Should the engineer recommend, work on the bridge will commence.
- A. adverb clause, modifying 'will commence'
- B. noun clause, subject of 'will commence'
- C. adjective clause, qualifying 'work'
- D. noun clause, in opposition to 'work'

30. It is surprising that she did not recognise me.
- A. adverb clause, modifying 'surprising'
- B. noun clause, object of 'surprising'
- C. adjective clause, qualifying 'surprising'
- D. noun clause, in apposition to 'surprising'

Section B (40 Marks)

Answer **one** question only. Spend the first **10 minutes** reading the questions and planning your answer to the question chosen. Planning may include writing rough notes. **Cross out** your rough notes before you hand in your script.

Marks will be awarded for layout, language, content and creativity. Candidates will be **penalized** for mechanical errors and writing answers that are short and/or off-point.

You are expected to write between **350** and **500 words** for the question you have chosen in the spaces provided on **pages 7** to **10.**

EITHER

31. Imagine that a donor organisation is assisting schools in your area to build laboratories. As head teacher, write a letter to the head of the organisation asking for funds for your school explaining how you would use the funds.

(40 marks)

OR

32. Write an original short story entitled "All that glitters is not gold". **(40 marks)**

Continued/...

Continued/...

Continued/...

Continued/...

END OF QUESTION PAPER

NB: This paper contains 10 printed pages.

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EXAMINATION NO.:________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/II

Tuesday, 6 September

Time Allowed: 1 h 45 min
11:00 – 12:45 pm

PAPER II

(60 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. The paper has **two** sections: **A** and **B**.
3. Answer **all** questions in **both** sections.
4. Use the spaces provided to answer questions in this paper.
5. Follow the instructions for each section carefully.
6. Write your **Examination Number** at the top of each page of the question paper.
7. In the table provided on this page, **tick** against the question number you have answered.
8. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick questions 1 & 2 if answered	Do not write in these columns	
1			
2			
	Total		

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Turn over

Section A (20 marks)

1. **Read the following passage carefully and afterwards make a summary of it in NOTE- FORM. In your summary:**

   a. provide a suitable title for the passage.
   b. give the main points.
   c. supply supporting points for each main point.

Marks will be awarded for content, note-style, and fair-copy layout. Candidates who simply copy the passage will be penalized.

Financial management refers to the set of administrative functions which have the mandate of controlling cash and credit so that an organisation may have means to carry out its objectives satisfactorily. There are various areas that fall under financial management. This passage, therefore, discusses the components of financial management.

One of the components is budgeting. Money is the most important resource in any organisation. Therefore, there is a need for proper planning to ensure that the money has been used effectively in meeting the objectives set like purchase of materials, maintenance of infrastructure and many more as required by the organisation. Budgeting is an ongoing process and can be revised from time to time depending on the income received by the organisation.

The other one is expenditure control. This helps the organisation to monitor and manage its finances appropriately. It is usually carried out in an organisation because it helps the organisation not to spend exceeding its income but rather within the budget allocations.

Next, is record-keeping. This helps an organisation to carry out other activities like monitoring the progress of its business, preparing financial statements and many others. Therefore, good financial records should be prepared and maintained on regular basis as it also helps in controlling finances.

Continued/.....

1. **(Continued)**

Finally, let's talk about income generation. This is the process of making an organisation sustainable through identifying a wide range of sources of income or money that will be used by the organisation. This helps to reduce the level of risk because it does not necessarily depend on own source of income. Therefore, for effective financial management, an income generation plan must be put in place to ensure sustainability.

In conclusion, it is clear that effective financial management depends on different factors some of which have been explained above.

Continued/...

1. **(Continued)**

Continued/…

1. **(Continued)**

Continued/

Section B (40 marks)

2. Read the following passage carefully and answer all the questions that follow.

It was one bright Monday morning when as usual Lekeni woke up and did her morning chores. She was filled with the vibrant energy common on Mondays after a weekend break from school. She had her breakfast of soya porridge, and quickly started off to school. Today she was a bit late. The thought of a punishment from Madam Zakaliya their form teacher made her quicken her stages.

She was fifteen and doing her form three at Phunziro Day Secondary School. She had outgrown her age. All plump, with a round face. Her curvy body structure was evident in her school uniform. Clad in white socks, black school shoes, she was a pleasant sight.

As she walked to school with long strides, a car suddenly stopped for her. It was a black Mercedes Benz with tinted windows. The owner, a lean muscular man likely in his late forties peeped through the window.

Lekeni's heart skipped a beat as if it would jump out of her chest. Eyes slit wide open, mouth agape; she stopped in her tracks and stared at both the posh car and its owner. It was very unusual to see classy sightings on this road.

"Hey young girl, where are you off to?" He asked.

He had a hungry look, like that of a lion that had spotted its prey.

"On my way to school sir," she answered with the innocence of a new born baby.

"Come on, jump in. I will drop you to school; you do not want to be late, do you?" He said coaxingly, with a soft voice.

Continued/...

2. **(Continued)**

A smile beamed on Lekeni's face. He was an angel sent by God to rescue her from being punished at school. She thought.

She hesitated a bit before getting into the car. For no good reason her instinct told her to check the car's number plate, **BTS 1217.**

Without wasting time, Lekeni threw herself on the front passenger seat with the carelessness of an innocent child. Her skirt pulled up slightly above the knees exposing the smooth silky youthful skin of her upper legs.

The man failed to hold his breath. His eyes lingered from her full chest to her bare legs. His thoughts were in turmoil. He was like a predator ready to pounce on its prey.

"I am Mavuto Zuze. You can call me Vuto like all my friends do." He said his hungry gaze still glued to the child who was young enough to be his last daughter.

"I am Lekeni," she introduced herself ignorant to the sexual advances the man was making.

"Oh, what a beautiful name, let me help you tighten your seat belt."

Before she could respond, he held the belt and fastened it uncomfortably tight on her. She bit her lips; it was a short way to school any way.

He started the car. To Lekeni's surprise, the man took a different turn from the one that led to her school. It was an abandoned road that passed through shrubs and bushes. She tried to enlighten him but it all fell on deaf ears.

Continued/…

2. (Continued)

He kept driving, unmoved like a robot. His face had suddenly transformed from a gentle caring person to that of a beast. The thought of her being harmed gave her goose bumps.

Lekeni unfastened the seat belt so that she could open the door and jump out. Alas! It was locked. Whatever this man wanted, she had to put up a fight.

"Stop the car you monster! I said stop the car!" She screamed in vain. After a few minutes the car suddenly came to a halt. With panic, Lekeni looked around trying to figure out where she was. It was in the middle of nowhere. It was all bushes.

Immediately, the man got out of the car. Like a possessed animal, sweat dripping down his lean face, he went round the car to the passenger's side. He opened the door with indignation. He pulled Lekeni outside and threw her to the ground.

Lekeni screamed at the top of her voice for help. She threw her hands in the air as if she was drowning. She went into a bout of hysteria, her legs kicking about. She had to fight!

The man tried to descend on her but her ranting and kicking made it impossible. He was starting to lose his patience. He slapped her twice across the face and threatened her to stop. Nothing, not even his threats worked.

Suddenly, some noise was heard through the bushes. Something was walking towards them. The man took a second to look back, it was a dog.

The moment the man was distracted Lekeni grabbed the chance to get away. She ran for her life like a rabid dog. Upon reaching the main road she lost consciousness.

Continued/...

2. (Continued)

She woke up in a hospital bed with bruises on her face. Her parents, school authorities and the Police were in the ward with her. They encouraged her to give an account of the ordeal to the police officer. Lekeni explained everything. She vividly described the man, his car and even remembered the number plate.

Within a few days he got apprehended at one of the popular drinking joints in town.

Questions

a. What was the name of Lekeni's school?

____

(1 mark)

b. Why was Lekeni compelled to board the stranger's car?

____

____

(1 mark)

c. Explain clearly that Mavuto Zuze had a preconceived idea to rape Lekeni.

____

____

(2 marks)

d. Describe the circumstances that led to Lekeni's escape.

____

____

(2 marks)

e. How could Lekeni easily have avoided her predicament?

____

____

(1 mark)

Continued/...

2. (Continued)

f. What made it possible for Mavuto Zuze to be apprehended?

____

____

(2 marks)

g. Give the meaning of each of the following words as used in the passage.

(i) 'vibrant' **(paragraph 1)** ______________________ **(1 mark)**

(ii) 'coaxingly' **(paragraph 8)** ______________________ **(1 mark)**

(iii) 'ordeal' **(paragraph 26)** ______________________ **(1 mark)**

h. Explain the meaning of each of the following expressions.

(i) 'bit her lips' **(paragraph 16)**

____

(2 marks)

(ii) 'fell on deaf ears' **(paragraph 17)**

____

(2 marks)

(iii) 'gave her goose bumps' **(paragraph 18)**

____

(2 marks)

Continued/...

2. (Continued)

n. Summarise the passage in your own words. Your summary should be between 70 and 100 words.

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(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

EXAMINATION NO.: ____________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/III

Thursday, 8 September

Time Allowed: 2 hours
2:00 – 4:00pm

PAPER III

(70 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. The paper has two sections: **A** and **B**.
3. You should spend the first **10 minutes** reading all the questions and planning your answers to the questions you choose.
4. Write your **Examination Number** at the top of each page of the question paper.
5. In the table provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick questions answered	Do not write in these columns	
1			
2			
3			
4			
	Total		

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Section A (30 marks)

Answer **both** questions in this section in the spaces provided.

1. **POETRY**

THE MONSTER

Has it come to this?
That human fellow human fear
Parents separated from their own children….
That our homes make us prisoner?

Our hearts once mingled
Our hands shook
The velvety embrace we once shared
Now a taboo
Love is now but a joy
Only in our dreams

The fault is not with us
It's the monster that roams in the world…
We have to conquer

Has it come to this?
We can't jubilate and ululate
Together as one
Our freedom robed?

Has it come to stay?
The monster; minister of death
Shattering our hopes

Continued/…

1. **(Continued)**

Questions

a. (i) What is the mood of the poem?

____
(1 mark)

(ii) Justify your answer in a **(i).**

____
(1 mark)

b. Who is the persona in the poem?

____
(1 mark)

c. Explain the meaning of each of the following expressions:

(i) "that human fellow human, fear"

____

____
(2 marks)

(ii) "minister of death"

____

____
(2 marks)

d. What figure of speech is 'Has it come to this?'

____
(1 mark)

e. Explain the significance of repeating the expression,
'Has it come to this.'

____

____
(2 marks)

Continued/…

1. **(Continued)**

f. Describe any two themes portrayed in the poem.

(i) ____

____ **(2 marks)**

(ii) ____

____ **(2 marks)**

g. Identify the monster in the poem.

____ **(1 mark)**

2. **SHORT STORY**

Read the passage carefully and answer questions that follow.

MY STRUGGLE

It all began when my father had decided to leave my mother for a woman from a neighboring township. No explanation had been given on how he would take care of us as he permanently left us in a rented house. To make matters worse, we had three months of unpaid rentals. This left my mother with no choice but to sell some of our possessions to pay off the rent before moving into a cheaper house.

The unpaid rentals were not her only problem. I had been recently selected to Mbwabwa Community Day Secondary School to the surprise of many. They said I was more deserving of a boarding school than most of my classmates who had made it to various boarding secondary schools.

Continued/...

2. (Continued)

Going to Mbwabwa was a blessing in disguise. There was no way my mother could afford boarding school fees. The money that remained after the sale of our ragged property was only enough for food items for a few days and my school fees. This meant that I would start school without uniform and other necessities.

I struggled for the whole of Form one. Chances of me going to the next class were very slim. I was not allowed to write examinations which made me to repeat.

My mother's constant lack of money deprived the family more as she always owed a lot of people. She had so many debts. Despite her financial challenges, my mother deemed it worthwhile to see her elder daughter go further with her education. She was working nonstop. Moving from one household to another, washing and cleaning made her hands sore every day.

The money she made was not much; however, it was enough to make part payment for my school fees.

The raising of school fees did not help matters. I was prohibited from attending classes due to accumulated fees balances. I was stressed and devastated. My mother's calmness and ease bothered me that I felt she did not care about my future anymore.

I later learnt that during one of the community meetings she diligently participated in, she had spoken to the project officer of Zathu Zomwe, a nongovernmental organisation focusing on girls' education. The Programs Officer promised to look into my situation.

Continued/...

2. (Continued)

Tired of just staying at home, I decided to sneak in our classroom so that I could learn a little bit. I had no idea who had reported me to the school authorities because during break, I was called to the head teacher's office. Afraid of being flushed out of class, I prepared my mind of apologetic statements.

When I got into the office, the head teacher introduced me to a young woman, Ms Mtendere. Apparently, she was the Programs officer for Zathu Zomwe. She confirmed that her organisation would pay my school fees and they would also be responsible for all my academic necessities all the way to college. She had one demand from me, "Work hard and make me proud."

Questions

a. Describe the mood of the story.

____

____

(2 marks)

b. Identify the narrator of the story.

____

(1 mark)

c. (i) What is the geographical setting of the story?

____

(1 mark)

(ii) Justify your answer in c (i).

____

(1 mark)

Continued/...

2. (Continued)

Tired of just staying at home, I decided to sneak in our classroom so that I could learn a little bit. I had no idea who had reported me to the school authorities because during break, I was called to the head teacher's office. Afraid of being flushed out of class, I prepared my mind of apologetic statements.

When I got into the office, the head teacher introduced me to a young woman, Ms Mtendere. Apparently, she was the Programs officer for Zathu Zomwe. She confirmed that her organisation would pay my school fees and they would also be responsible for all my academic necessities all the way to college. She had one demand from me, "Work hard and make me proud."

Questions

a. Describe the mood of the story.

____

____

(2 marks)

b. Identify the narrator of the story.

____

(1 mark)

c. (i) What is the geographical setting of the story?

____

(1 mark)

(ii) Justify your answer in **c (i)**.

____

(1 mark)

Continued/...

2. **(Continued)**

Going to Mbwabwa was a blessing in disguise. There was no way my mother could afford boarding school fees. The money that remained after the sale of our ragged property was only enough for food items for a few days and my school fees. This meant that I would start school without uniform and other necessities.

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The raising of school fees did not help matters. I was prohibited from attending classes due to accumulated fees balances. I was stressed and devastated. My mother's calmness and ease bothered me that I felt she did not care about my future anymore.

I later learnt that during one of the community meetings she diligently participated in, she had spoken to the project officer of Zathu Zomwe, a nongovernmental organisation focusing on girls' education. The Programs Officer promised to look into my situation.

Continued/...

Section A (30 marks)

Answer **both** questions in this section in the spaces provided.

1. POETRY

THE MONSTER

Has it come to this?
That human fellow human fear
Parents separated from their own children….
That our homes make us prisoner?

Our hearts once mingled
Our hands shook
The velvety embrace we once shared
Now a taboo
Love is now but a joy
Only in our dreams

The fault is not with us
It's the monster that roams in the world…
We have to conquer

Has it come to this?
We can't jubilate and ululate
Together as one
Our freedom robed?

Has it come to stay?
The monster; minister of death
Shattering our hopes

Continued/…

1. **(Continued)**

Questions

a. (i) What is the mood of the poem?

____
(1 mark)

(ii) Justify your answer in a **(i).**

____
(1 mark)

b. Who is the persona in the poem?

____
(1 mark)

c. Explain the meaning of each of the following expressions:

(i) "that human fellow human, fear"

____

____
(2 marks)

(ii) "minister of death"

____

____
(2 marks)

d. What figure of speech is 'Has it come to this?'

____
(1 mark)

e. Explain the significance of repeating the expression,
'Has it come to this.'

____

____
(2 marks)

Continued/...

1. **(Continued)**

f. Describe any **two** themes portrayed in the poem.

(i) ____

____

(2 marks)

(ii) ____

____

(2 marks)

g. Identify the monster in the poem.

____

(1 mark)

2. SHORT STORY

Read the passage carefully and answer questions that follow.

MY STRUGGLE

It all began when my father had decided to leave my mother for a woman from a neighboring township. No explanation had been given on how he would take care of us as he permanently left us in a rented house. To make matters worse, we had three months of unpaid rentals. This left my mother with no choice but to sell some of our possessions to pay off the rent before moving into a cheaper house.

The unpaid rentals were not her only problem. I had been recently selected to Mbwabwa Community Day Secondary School to the surprise of many. They said I was more deserving of a boarding school than most of my classmates who had made it to various boarding secondary schools.

Continued/…

2. (Continued)

Going to Mbwabwa was a blessing in disguise. There was no way my mother could afford boarding school fees. The money that remained after the sale of our ragged property was only enough for food items for a few days and my school fees. This meant that I would start school without uniform and other necessities.

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The money she made was not much; however, it was enough to make part payment for my school fees.

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I later learnt that during one of the community meetings she diligently participated in, she had spoken to the project officer of Zathu Zomwe, a nongovernmental organisation focusing on girls' education. The Programs Officer promised to look into my situation.

Continued/...

2. (Continued)

Tired of just staying at home, I decided to sneak in our classroom so that I could learn a little bit. I had no idea who had reported me to the school authorities because during break, I was called to the head teacher's office. Afraid of being flushed out of class, I prepared my mind of apologetic statements.

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Questions

a. Describe the mood of the story.

____

____

(2 marks)

b. Identify the narrator of the story.

____

(1 mark)

c. (i) What is the geographical setting of the story?

____

(1 mark)

(ii) Justify your answer in **c (i)**.

____

(1 mark)

Continued/...

2. (Continued)

d. Describe the character portrayed by each of the following

(i) the mother

____

____

(2 marks)

(ii) the project officer

____

____

(2 marks)

e. Explain any **two** themes portrayed in the story.

____

____

____

____

(4 marks)

f. In what way is the narrator passionate about education?

____

(2 marks)

Section B (40 marks)

Answer **both** questions in this section on the spaces provided on **pages 9** to **12**. Choose either question **a** or **b** in each case and **not both**.

3. **THE PEARL** by John Steinbeck

EITHER

a. With **eight** points from the book, "The Pearl", show that Coyotito's life could have been saved. **(20 marks)**

OR

b. Discuss the character of each of the following from the book, "The Pearl"

(i) the neighbours
(ii) the beggars **(20 marks)**

4. **MACBETH** by William Shakespeare.

EITHER

a. Using **eight** points, to what extent is the theme of death central in the play, "Macbeth"? **(20 marks)**

OR

b. Discuss the character of each of the following in the play, "Macbeth".
(i) Malcolm
(ii) Macduff

(20 marks)

Continued/…

Continued/…

Continued/…

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

Section A (75 marks)

Answer all questions.

1. a. (i) State any two differences between intensive and extensive farming.

____

____

(2 marks)

(ii) Give any two advantages of intensive farming.

____

____

(2 marks)

(iii) With aid of a flow diagram describe farming as a system.

____

____

____

____

(5 marks)

b. (i) Name any two countries in South East Asia where rice is intensively cultivated.

____

____

(2 marks)

(ii) Describe any one way in which each of the following factors influence intensive rice farming in Asia:

1. Temperature

____

____

(2 marks)

Continued/…

EXAMINATION NO.:______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/II

Tuesday, 13 September

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER II

(100 marks)

HUMAN AND ECONOMIC GEOGRAPHY

Instructions

1. **This paper contains 13 printed pages. Please check.**
2. The paper has **five** questions. Answer the questions in the spaces provided.
3. There are two sections **A** and **B**. Answer all the **three** questions in Section **A** and any **one** question in Section **B**.
4. The maximum number of marks for the answers is indicated against each question.
5. Write your Examination Number on top of each page of this question paper.
6. In the table provided on this page **tick** against the question number you have answered.
7. **Hand in** your question paper when the time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
	Total		

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3. d. **(Continued)**

(ii) Describe any **two** factors which have influenced the development of fishing ground marked **1.**

(4 marks)

(iii) Mention any **two** examples of fish species which are harvested at fishing ground **1.**

(2 marks)

Section B (25 marks)

Answer **one** question only

4. a. (i) Define the term "automation".

(1 mark)

(ii) Why is automation method of assembling vehicles also called robot technology?

(2 marks)

Continued/...

2. (Continued)

b. Describe any **two** factors for rapid growth of Lilongwe city.

____

____

____

____

(4 marks)

c. (i) Define the term trade.

____

(1 mark)

(ii) Describe any **one** way through which each of the following factors affects the status of a country's balance of trade:

1. political instability.

____

____

(2 marks)

2. population growth.

____

____

(2 marks)

(iii) Explain the impact of customs in international trade. Give any **two** points.

____

____

____

____

(4 marks)

Continued/...

2. **(Continued)**

b. Describe any **two** factors for rapid growth of Lilongwe city.

____

____

____

____

(4 marks)

c. (i) Define the term trade.

____

(1 mark)

(ii) Describe any **one** way through which each of the following factors affects the status of a country's balance of trade:

1. political instability.

____

____

(2 marks)

2. population growth.

____

____

(2 marks)

(iii) Explain the impact of customs in international trade. Give any **two** points.

____

____

____

____

(4 marks)

Continued/…

2. **(Continued)**

d. Explain any **two** factors leading to low access of Internet facilities in Malawi's rural settlements.

____

____

____

____

(4 marks)

e. Explain any **two** possible benefits of drilling oil on lake Malawi.

____

____

____

____

(4 marks)

3. a. Define each of the following terms:

(i) ore

____

____

(1 mark)

(ii) mineral

____

____

(1 mark)

b. (i) State any **two** differences between demersal and pelagic fish

____

____

(2 marks)

Continued/…

3. b. (Continued)

(ii) Classify the following fish species into demersal and pelagic fish in **Table 1**: halibut, tuna, bombe and usipa. **(4 marks)**

Table 1

Demersal	Pelagic

c. **Figure 1** is a diagram showing a method of mining.

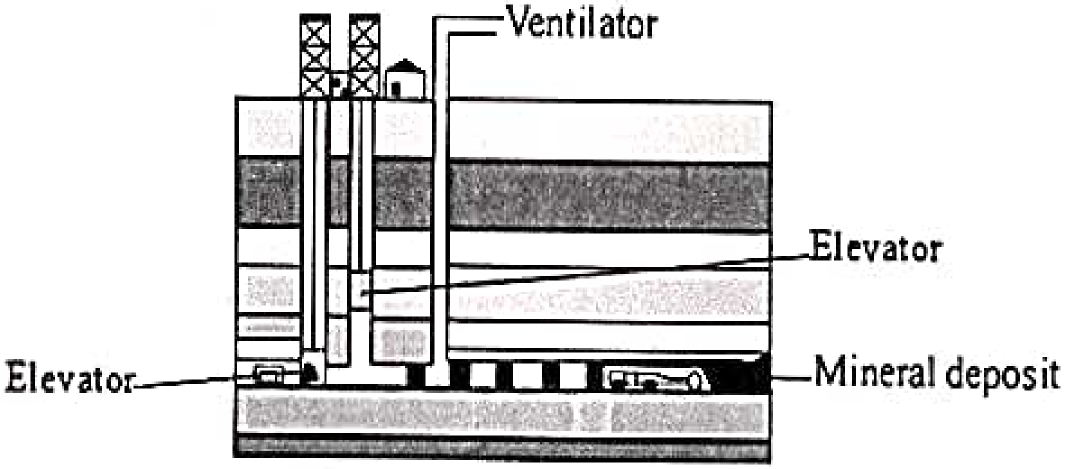

Ventilator
Elevator
Elevator
Mineral deposit

Figure 1

(i) Identify the method of mining.

____

(1 mark)

(ii) Mention any **two** minerals which are mined using the method.

____

____

(2 marks)

Continued/…

3. c. **(Continued)**

(iii) Briefly describe the process of mining using the method.

____

____

____

____

(4 marks)

(iv) Explain any **one** problem associated with the use of mining method shown in the **Figure 1**.

____

____

(2 marks)

d. **Figure 2** is the map of the world showing the major fishing grounds.

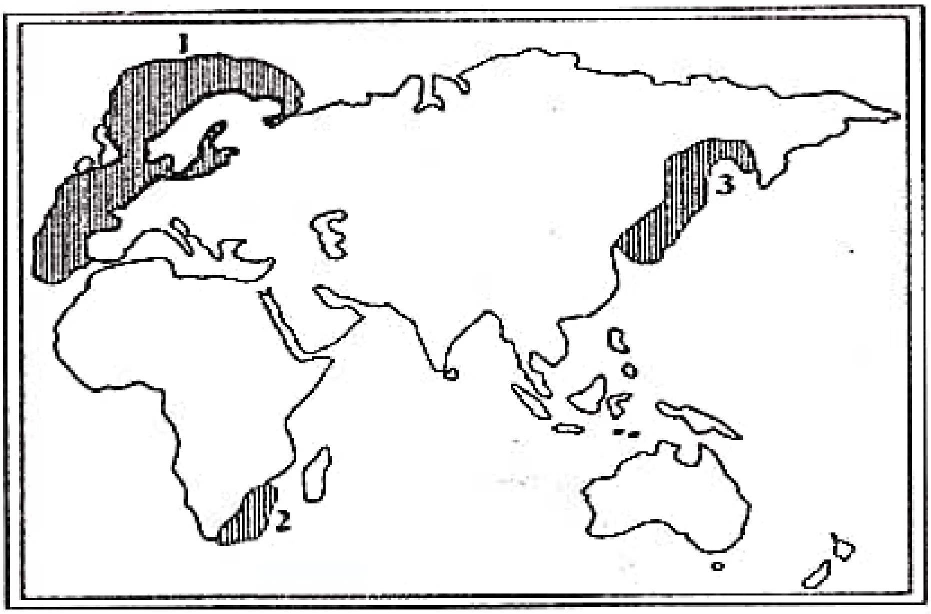


Figure 2

(i) Name the fishing grounds labelled **1** and **2.**

____

____

(2 marks)

Continued/…

3. d. **(Continued)**

(ii) Describe any **two** factors which have influenced the development of fishing ground marked **1.**

(4 marks)

(iii) Mention any **two** examples of fish species which are harvested at fishing ground **1.**

(2 marks)

Section B (25 marks)

Answer **one** question only

4. a. (i) Define the term "automation".

(1 mark)

(ii) Why is automation method of assembling vehicles also called robot technology?

(2 marks)

Continued/…

4. a. (Continued)

(iii) Explain any **two** problems which occur due to the use of automation method in motor vehicle manufacturing in Japan.

____

____

____

____

____

(4 marks)

b. **Table 2** is showing the life expectancy patterns for countries **P** and **Q**.

Table 2

Country	Life expectancy	
	Males	Females
P	40	49
Q	70	75

(i) Name any **one** country in Southern Africa whose life expectancy is similar to that of country **P.**

____

(1 mark)

(ii) Describe any **two** factors which will lead to development of life expectancy pattern of country **Q.**

____

____

____

____

(4 marks)

Continued/…

4. b. **(Continued)**

(iii) Compare the life expectancy patterns of country P and Q. Give any **two points**

(4 marks)

c. (i) Mention the urban functional zone in which each of the following services are located

1. banks

(1 mark)

2. filling stations

(1 mark)

3. shopping malls

(1 mark)

(ii) Why are land values high in the Central Business District?

(2 marks)

(iii) Explain any **two** measures for controlling rural urban migration in Malawi.

(4 marks)

Continued/…

5. a. (i) Mention any **two** settlement patterns which are common in urban Areas of Malawi.

____

____

(2 marks)

(ii) Explain any **two** strategies of managing environmental problems associated with urban settlements.

____

____

____

____

____

____

(4 marks)

b. A country has a population of **30,000,000** economically active population and **5,000,000** non-economically active people.

(i) Calculate the country's dependency ratio. **(2 marks)**

(ii) Interpret the dependency ratio for the country.

____

____

____

(3 marks)

Continued/...

5. **(Continued)**

c. **Figure 3** is a world map showing the location of major industrial regions.

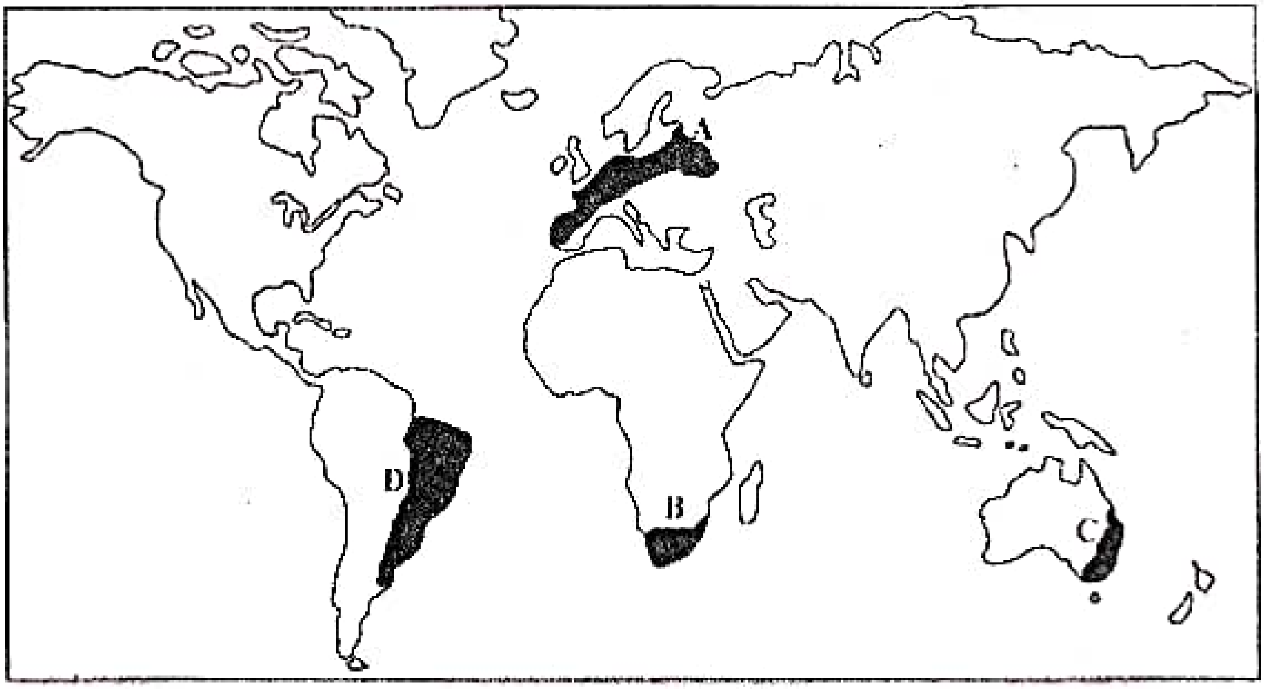


Figure 3

(i) Name the industrial regions labeled **B** and **C**.

B: ____ **(1 mark)**

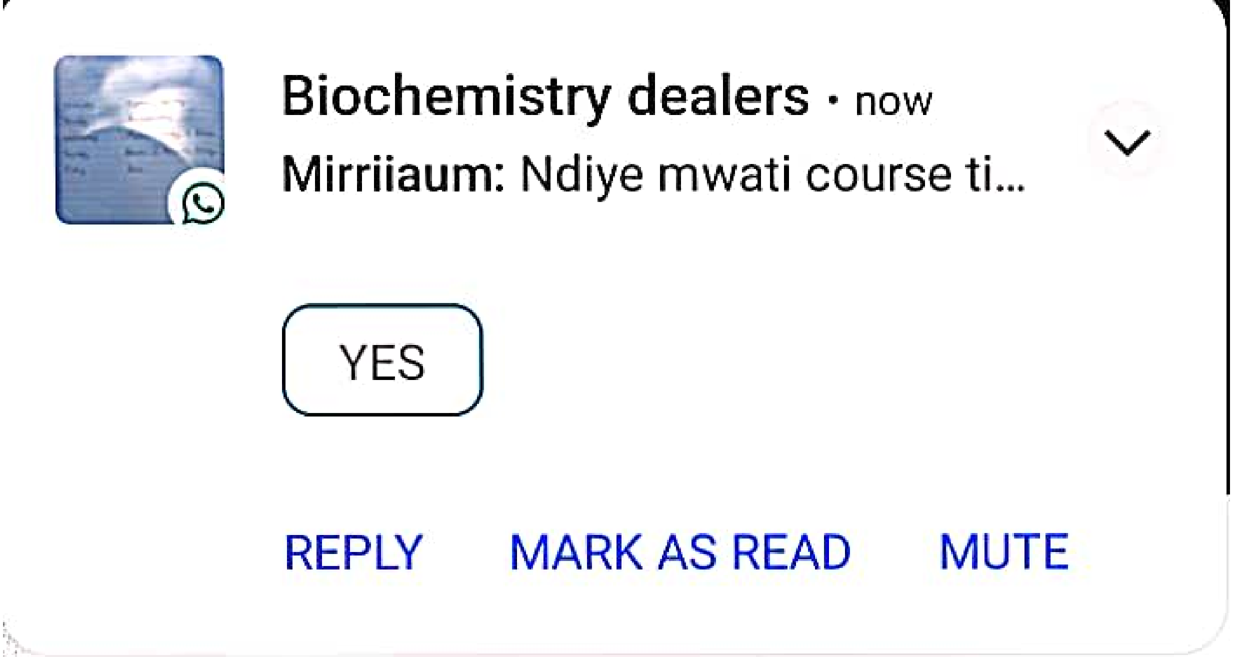
C: ____ **(1 mark)**

(ii) Mention any **two** industries which have developed in industrial region labelled **C**.

____

____ **(2 marks)**

Continued/…


Biochemistry dealers • now

Mirriiaum: Ndiye mwati course ti…

5. c. **(Continued)**

(iii) Explain any **two** factors which have influenced the development of the industrial region labelled **B**.

(4 marks)

(iv) On the map locate the following:

1. Asian industrial region **(1 mark)**
2. North American industrial region **(1 mark)**

d. Describe any two economic factors influencing global population distribution.

(4 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

5. c. (Continued)

(iii) Explain any two factors which have influenced the development of the industrial region labelled B.

____

____

____

____

____

(4 marks)

(iv) On the map locate the following:

1. Asian industrial region (1 mark)
2. North American industrial region (1 mark)

d. Describe any two economic factors influencing global population distribution.

____

____

____

____

____

____

(4 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

EXAMINATION NO.: ______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Monday, 12 September

Time Allowed: 2 h 30 min
8:00 – 10:30 am

PAPER I

(110 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. The paper has **five** questions.
3. The paper has two sections: **A** and **B**.
4. Answer all the three questions in Section A and **any one** question in Section **B**.
5. Write your **Examination Number** on top of each page of this question paper.
6. In the table provided on this page **tick** against the number of the question you have answered.
7. **Hand in** your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
	Total		

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Section A (85 marks)

Answer **all** questions in the spaces provided under each question.

1. Study the **1: 50,000** map extract of Kasungu and use it to answer questions that follow.

a. (i) Identify the human made feature located at **six-figure** grid reference **376824**.

____

(1 mark)

(ii) Find the **six-figure** grid reference for the trigonometric station **519/MWT.**

____

(2 marks)

b. (i) Mention the general direction of flow for Mavwemba river between **northing 82** and **northing 84.**

____

(1 mark)

(ii) Identify the drainage pattern being displayed by Dwangwa river between **easting 36** and **easting 38.**

____

(1 mark)

(iii) Find the bearing of trigonometric point **515/MWT** in grid **3577** from Kambulu school in grid **3676.**

____

____

(3 marks)

c. (i) Mention any **two** methods of relief representation which have used on the map.

____

____

(2 marks)

Continued/…

1. c. **(Continued)**

(ii) Identify any **two** settlement patterns which are being shown on the map.

____

____

(2 marks)

(iii) Account for the absence of settlements in the area located on the South Western part of the map.

____

____

____

(3 marks)

d. (i) Explain whether Matondo village in grid **3581** and Kwalira village in grid **4382** are intervisible.

____

____

____

(3 marks)

(ii) Give evidence to show that the following human activities take place in the area captured on the map:

1. farming

____

____

(1 mark)

2. wild life conservation

____

____

(1 mark)

Continued/…

1. c. **(Continued)**

(ii) Identify any **two** settlement patterns which are being shown on the map.

____

____

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____

____

(3 marks)

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1. farming

____

____

(1 mark)

2. wild life conservation

____

____

(1 mark)

Continued/…

1. **(Continued)**

e. Calculate the total area for Chibwazi estate as shown on the map, giving the answer to the nearest **km²**.

(6 marks)

f. (i) Reduce the area on the map south of **northing 77** between **easting 35** and **easting 40** by half of its original size. Use the graph paper provided on this page. **(4 marks)**

(ii) On the reduced map show the following:

1.	Chioza dip tank	**(1 mark)**
2.	Kasungu national park	**(1 mark)**
3.	**T 323** road	**(2 marks)**
4.	New scale	**(1 mark)**

Continued/…

2. a. (i) Give any **one** example of inner planets.

____

(1 mark)

(ii) Mention any **two** characteristics of dwarf planets.

____

____

(2 marks)

(iii) State any **two** differences between Rotation and Revolution of the Earth.

____

____

____

____

(2 marks)

b. (i) Describe the process for the formation of Rift valleys through tension force.

____

____

____

____

____

(4 marks)

(ii) Explain any **two** ways in which Rift valleys are economically important.

____

____

____

____

____

____

(4 marks)

Continued/…

2. **(Continued)**

c. (i) Define each of the following types of volcanoes:

1. active

(1 mark)

2. extinct

(1 mark)

(ii) State any **two** negative effects of volcanic eruptions

(2 marks)

d. **Figure 1** is an illustration of the Rock cycle.

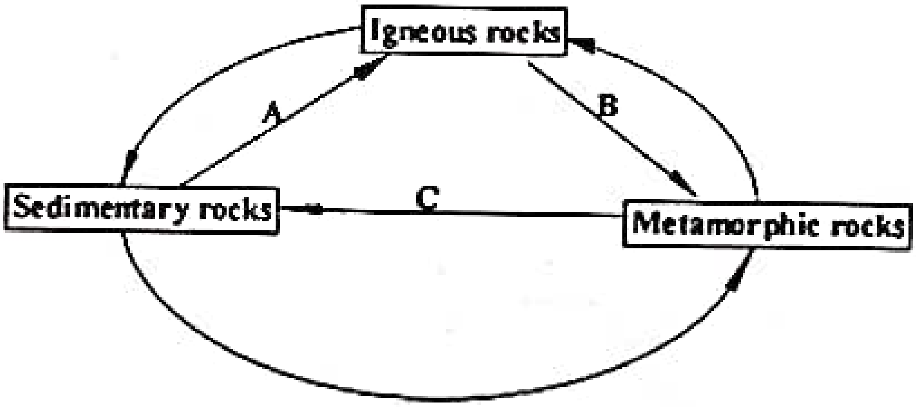
Igneous rocks
A
B
C
Sedimentary rocks
Metamorphic rocks

Figure 1

(i) Mention any **two** processes represented by arrow marked A.

(2 marks)

Continued/...

2. **(Continued)**

(ii) Name any **two** agents which influence process **B.**

____

____
(2 marks)

(iii) Explain the process of rock formation through process **C.**

____

____

____

____
(4 marks)

3. a. (i) Describe any **two** human activities which lead to depletion of fish resources.

____

____

____

____
(4 marks)

(ii) Explain the effect of poaching on the environment.

____

____
(2 marks)

b. (i) Define the term "environmental management".

____

____
(1 mark)

Continued/…

3. b. **(Continued)**

(ii) Explain any **two** environmental management strategies related to Legislation which are practiced in Malawi.

____

____

____

____

(4 marks)

c. **(i)** Mention any **two** resources apart from land which are affected when land is polluted.

____

____

(2 marks)

(ii) Describe any **two** measures which are used by industries to control pollution.

____

____

____

____

(4 marks)

d. Account for the depletion of indigenous forests in Malawi. Give any **two** points.

____

____

____

____

____

____

(4marks)

Continued/…

3. **(Continued)**

c. Explain any **two** pieces of evidence showing climate change in Malawi.

____

____

____

____

____

____

(4 marks)

Section B (25 marks)

Answer **one** question only in this section in the spaces provided under each question.

4. a. With aid the aid of a labelled diagram describe the occurrence of a sea breeze.

____

____

____

____

(7 marks)

b. Explain any **two** ways in which sea breezes are economically important.

____

____

____

____

(4 marks)

Continued/…

4. **(Continued)**

c. Describe the role of atmospheric tiny solid particles in the formation of precipitation.

____

____

____ **(2 marks)**

d. **Figure 2** is a world map showing climatic regions.

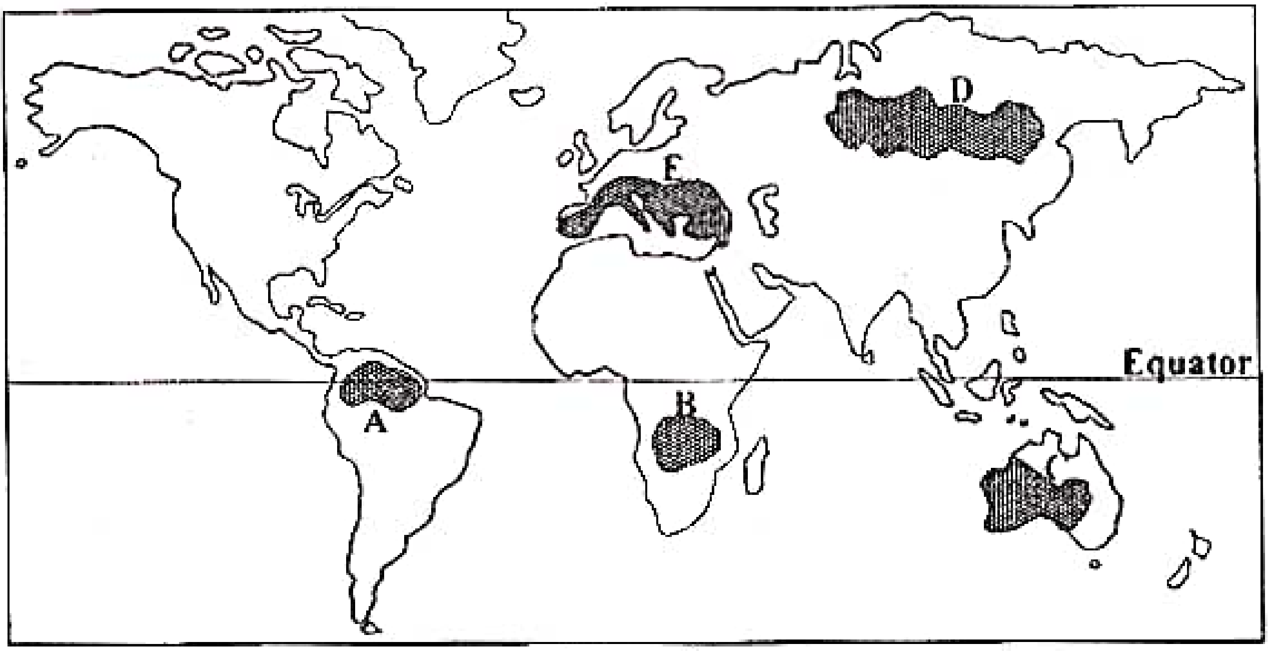

Figure 2

(i) Identify the climates experienced in the regions labelled A and C.

A: __________________________________ **(1 mark)**

C: __________________________________ **(1 mark)**

(ii) Mention any two countries in Africa which experience the climate of region labelled A.

____

____ **(2 marks)**

Continued/…

4. d. **(Continued)**

(iii) Describe any **two** ways through which plants adapt to climatic conditions of the region labelled **C.**

____

____

____

____

____

____

(4 marks)

(iv) Explain any **two** climatic problems experienced in areas occurring under climatic region labelled **B.**

____

____

____

____

____

____

(4 marks)

5. a. (i) Define the term "seasons."

____

____

(1 mark)

(ii) Explain how the tilting of the Earth's axis causes seasons.

____

____

____

____

(3 marks)

Continued/…

5. (Continued)

b. **Figure 3** is a world map showing distribution of air masses.

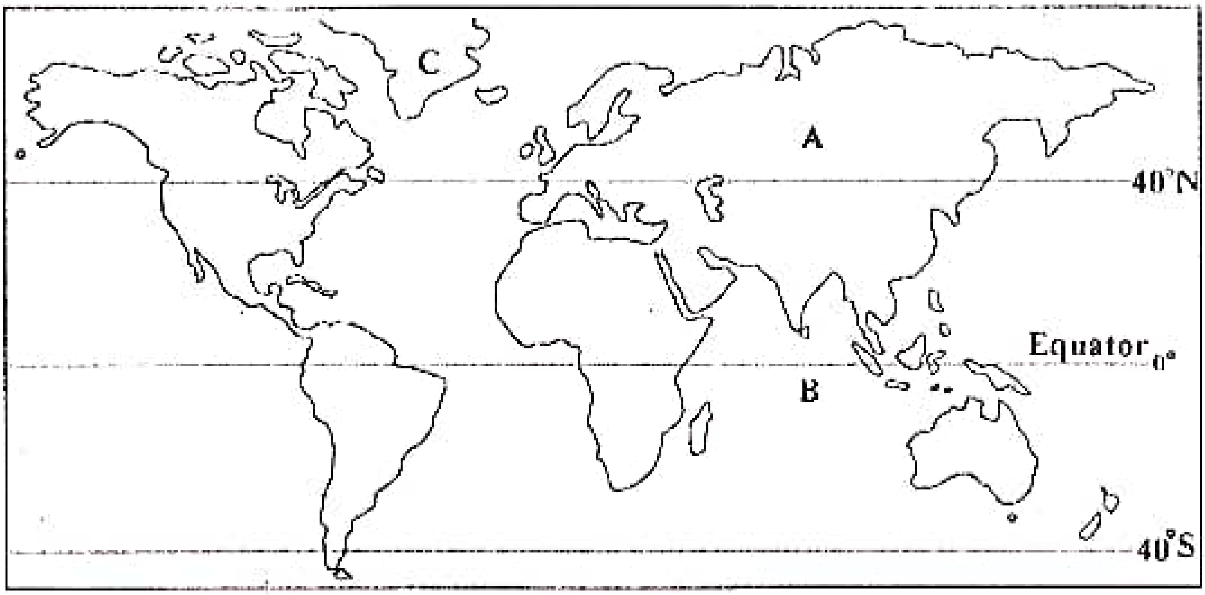

Figure 3

(i) Name the air masses found in regions labeled **B** and **C.**

B: ______________________________ **(1 mark)**

C: ______________________________ **(1 mark)**

(ii) State any **two** differences between the air masses found in regions labelled **A** and **B.**

____

______________________________ **(2 marks)**

(iii) Account for the absence of rainfall in regions lying under air mass **C.**

____

____

______________________________ **(3 marks)**

5. (Continued)

c. (i) Give any **two** examples of solid precipitation.

(2 marks)

(ii) State any **two** characteristics of Frontal rainfall.

(2 marks)

d. City **X** is located **45°** west of the Equator. Calculate the actual time of the city if the Greenwich time is **2:00 pm**. **(4 marks)**

c. **Figure 4** is a diagram showing vegetation.

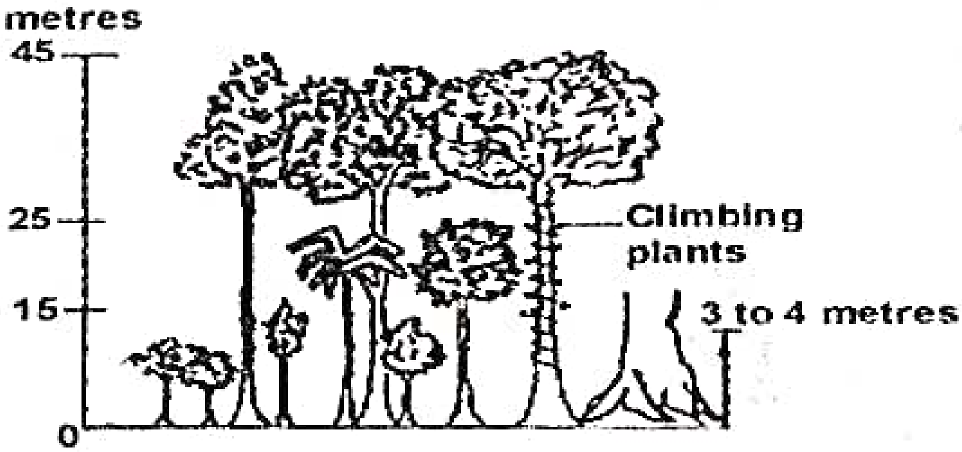

Figure 4

(i) Identify the type of vegetation shown in the diagram.

(1 mark)

5. e. **(Continued)**

(ii) Name the type of climate which is associated with the vegetation shown in the diagram.

____
(1 mark)

(iii) Describe any **two** ways through which the vegetation in the diagram adapts to its climatic conditions.

____

____

____

____
(4 marks)

END OF QUESTION PAPER

NB: This paper contains 14 printed pages.

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EXAMINATION NO.:________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

LIFE SKILLS

(100 marks)

Subject Number: M124

Wednesday, 7 September

Time Allowed: 2 hours
2:00 – 4:00 pm

Instructions

1. **This paper contains 11 printed pages. Please check.**
2. This paper has **three** sections, **A, B** and **C.**
3. In the table provided on this page, **tick** against the question number you have answered
4. Write your **Examination Number** in the spaces provided on all the pages of this paper before you start answering the questions

Question Number	Tick Questions 21-28 if answered	Do not write in these columns	
1-20			
21			
22			
23			
24			
25			
26			
27			
28			
	Total		

PLEASE DO NOT TURN OVER UNTIL YOU ARE TOLD TO DO SO

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Section A (20 marks)

Answer all the **20** questions in this section. **Encircle** the letter that corresponds to the correct answer.

1. Which of the following is the importance of giving nutritious food to people living with HIV and AIDS?
- A. It helps them to accept their status easily.
- B. It helps them to feel accepted by others.
- C. It improves their immune system.
- D. It gives them peace of mind.

2. The following are the types of prescribed drugs **except**
- A. antibiotics.
- B. stimulants.
- C. penicillin.
- D. analgesics.

3. The act of finding out whether the objectives of an entrepreneurship have been achieved is called
- A. planning.
- B. evaluation.
- C. monitoring.
- D. implementation.

4. Which of the following is the responsibility of people living with HIV and AIDS?
- A. providing security to themselves and people around them.
- B. taking medication as prescribed by the doctor.
- C. abstaining from all sexual activities.
- D. making sure that they have a good house.

Tadala was staying in the village with her grandmother. Her friend Yankho influenced her to go to town and engage in prostitution business. However, Yankho refused. Use this information to answer questions **5** and **6**.

5. Which of the following skills did Yankho portray?
- A. communication
- B. decision making
- C. creative thinking
- D. peer pressure resistance

6. Which of the following could be the effect if Yankho accepted the offer?
- A. contracting sexually transmitted infection.
- B. negative peer pressure.
- C. being imprisoned.
- D. loss of friends.

7. Which of the following is a psychological effect of rape?
- A. unwanted pregnancy.
- B. contraction of STIs.
- C. depression
- D. imprisonment.

8. High self-esteem helps one to be
- A. responsible.
- B. aggressive.
- C. pessimistic.
- D. appreciated.

Continued/..

Katera was spending most of his time drinking and smoking with friends. As a result, his performance at school declined. Use this information to answer questions 9 and 10.

9. Which of the following factors affected Katera's performance?
A. positive peer pressure.
B. negative peer pressure.
C. self-worth.
D. self-esteem

10. Which of the following life skills was Katera lacking?
A. effective communication.
B. numeracy
C. decision making
D. negotiation.

11. Which of the following is a best way of supporting vulnerable people in a society?
A. giving hand outs.
B. praying for them.
C. providing guidance and counselling.
D. equipping them with business skills.

12. Which of the following is a job searching strategy?
A. being patient
B. engaging in voluntary work
C. attending interviews
D. bribing interviewers

13. The following are the effects of negative peer pressure **except**
A. loss of identity.
B. making wrong decisions.
C. loss of friends.
D. developing bad habits.

14. Which of the following ways in business could engage itself in social responsibilities?
A. creating new brand.
B. reducing the costs
C. inviting professionals.
D. employing the locals.

Ulemu has a car washing business. He is constantly dealing with rival business people who offer competitive prices. Use this information to answer questions 15 and 16.

15. Which of the following business risks is Ulemu facing?
A. marketing.
B. insecurity
C. bad debt
D. administrative

16. Which of the following skills could help Ulemu to deal with the business risk?
1. decision making
2. creative thinking
3. increasing capital
4. negotiation.

A. 1, 2 and 3.
B. 1, 3 and 4.
C. 1, 2 and 4.
D. 2, 3 and 4.

17. Which of the following could affect one's sexual behaviour?
A. hard work
B. cultural beliefs
C. chatting with friends
D. guidance and counselling

Continued/

18. How can entrepreneurship prevent the youth from engaging in risky behaviour?

1. isolating them from society
2. keeping them occupied
3. providing them with necessities
4. giving them assertive skills.

A. 1 and 3
B. 1 and 4
C. 2 and 3
D. 2 and 4

At the age of fifteen, Hanna discovered some changes with her body. Use this information to answer questions **19** and **20**.

19. Which of the following concepts describes Hanna's situation?

A. self-image.
B. self-awareness.
C. self-esteem.
D. self-worth.

20. How can Hanna benefit from her discovery?

A. She can understand and withdraw from her peers.
B. She can understand and develop a positive image.
C. She can understand and grow into adulthood.
D. She can learn to associate with adults.

Section B (50 marks)

Answer **all** the **five** questions in this section in the spaces provided.

21. a. State any **two** ways in which positive peer pressure could help to improve one's performance at school.

____

____

(2 marks)

b. Explain any **two** ways in which donating blood is important in the society.

____

____

____

____

(4 marks)

Continued/...

21. (Continued)

c. Explain any **two** dangers of disposing refuse improperly.

____

____

____

____

(4 marks)

22. a (i) Give any **two** sources of information about careers and vocations.

____

____

(2 marks)

(ii) Explain any **two** ways in which seeking vocational guidance and counselling is important.

____

____

____

____

(4 marks)

b. Explain any **two** factors to consider when planning for a career.

____

____

____

____

(4 marks)

23. a. Define the term “value clarification”.

____

____

(1 mark)

Continued/...

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Continued/...

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Section B (50 marks)

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____

____

(2 marks)

b. Explain any **two** ways in which donating blood is important in the society.

____

____

____

____

(4 marks)

Continued/...

21. **(Continued)**

c. Explain any **two** dangers of disposing refuse improperly.

____

____

____

____

(4 marks)

22. a (i) Give any **two** sources of information about careers and vocations.

____

____

(2 marks)

(ii) Explain any **two** ways in which seeking vocational guidance and counselling is important.

____

____

____

____

(4 marks)

b. Explain any **two** factors to consider when planning for a career.

____

____

____

____

(4 marks)

23. a. Define the term "value clarification".

____

____

(1 mark)

Continued/...

23. (Continued)

b. Kessani spends a lot of time watching movies while his friends are studying. His close friend Limbikani has stopped interacting with him unless his performance improves.

(i) Identify the form of peer pressure Kessani is subjected to.

____

____

(1 mark)

(ii) Explain any **two** possible consequences that Kessani would face if he is to follow his friends' advice.

____

____

____

____

(4 marks)

c. Explain any **two** factors that promote corruption in business.

____

____

____

____

(4 marks)

24. a. Explain any **one** way in which assertiveness would help one choose a career.

____

____

(2 marks)

Continued/...

24. **(Continued)**

b. Explain any **two** ways in which reporting cases of sexual harassment is important.

____

____

____

____

(4 marks)

c. Explain any **two** social and moral responsibilities of parents.

____

____

____

____

(4 marks)

25. a. Give any **one** way in which engaging in acceptable morals and values in society is important.

____

____

(1 mark)

b. Nambewe lost her husband, her relatives forced her to have sex with another man in order to put the spirit of her dead husband to rest.

(i) Identify the cultural practice.

____

____

(1 mark)

(ii) Explain any **one** danger of the cultural practice

____

____

(2 marks)

Continued/...

25. (Continued)

c. Explain any **one** way in which stigma contributes to the spread of HIV and AIDS.

____

____

____

(2 marks)

d. Explain any **two** factors that influence peaceful co-existence in a school.

____

____

____

____

(4 marks)

Continued/...

Section C (30 marks)

Essays

In an essay form answer any **two** questions from this section in the spaces provided.

26. Describe any **five** ways of dealing with challenges associated with interpersonal relationships among the youth.

(15 marks)

Continued/...

27. Describe any **five** steps involved in developing positive self-esteem.

(15 marks)

Continued/...

28. Describe any **five** skills required in entrepreneurship.

(15 marks)

END OF QUESTION PAPER

NB: This paper contains 11 printed pages

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PAGE

19

EXAMINATION NO.:_______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/I

Wednesday, 7 September

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. Answer **all** the **20** questions in this paper.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided on the question paper.
5. Scientific calculators may be used.
6. The graph paper and the blank answer sheet at the end of the question paper can be used if required. Do **not** tear them off.
7. **All working must be clearly shown.**
8. Write your **Examination Number** at the top of each page of your question paper in the spaces provided.
9. In the table provided on this page, **tick** against the question number you have answered.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
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16			
17			
18			
19			
20			
	Total		

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Turn over

1. Factorise completely $6p^2 + 3pq - 45q^2$. **(4 marks)**

2. Simplify $312_{10} + 118_{10}$, giving the answer in base 7. **(4 marks)**

Continued/…

3. Make b subject of the formula $\frac{3b + 2x}{2x - b} = y$. **(5 marks)**

4. Rationalise the denominator of $\frac{32}{\sqrt{6} - \sqrt{2}}$, leaving the answer in its simplest form. **(5 marks)**

Continued/...

5. Solve the equation $x^2 + 6x - 5 = 0$, giving the answer correct to **three** significant figures. **(6 marks)**

6. A machine was purchased for K52 000. During its first year of use it depreciated by 10% and 15% in the second year. Calculate the value of the machine in the third year. **(4 marks)**

Continued/...

7. The ordered pairs for a certain function are: (1, 5); (2, 7); (3, 9); (4, 11). Draw an arrow diagram to represent the ordered pairs. **(4 marks)**

8. In **Figure 1, AD** = 4 cm, **CD** = 8 cm, **AE** = 6 cm and **EB** = y cm.

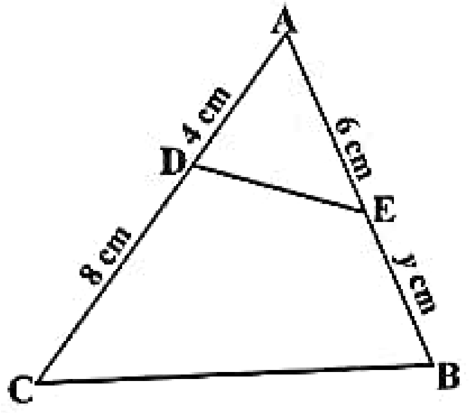

Figure 1

Given that triangles **ABC** and **ADE** are similar, calculate the value of y. **(4 marks)**

Continued/...

9. A circle with centre **O** and radius 5 cm has a chord **AB** which is 8 cm long. Calculate the distance from the centre of the circle to the chord **AB**.

(6 marks)

Continued/…

10. Given that $A = \begin{pmatrix} 3 & 2 \\ 1 & 4 \end{pmatrix}$, $B = \begin{pmatrix} -1 & 3 \\ 0 & 2 \end{pmatrix}$, calculate $\mathbf{A}^2 + \mathbf{B}$. **(4 marks)**

11. The mass (m) of an object varies directly as its density (d) and directly as the cube of its radius (r). When the radius of the object is 2 cm and its density is 8g/cm^3, the mass of the object is 32 g. Find the radius of the object of density 1.25g/cm^3 and mass 40 g. **(6 marks)**

Continued/…

12. A straight line passing through points **A** and **B** has a mid point **M** (5, 2). If the coordinates of point **A** is (6, 3), find the coordinates of point **B**. **(5 marks)**

13. The **Table below** shows water charges in a month by a water supplying board.

Description	**Amount (K)**
Meter rental charge	893
Charge per cubic metre of water used	351
Service charge	285
Value added tax	16.5%

Calculate the water bill for a customer who used116 m^3 of water in a certain month. **(5 marks)**

14. **Figure 2** shows triangle **PQR** and its image **P'Q'R'** under enlargement.

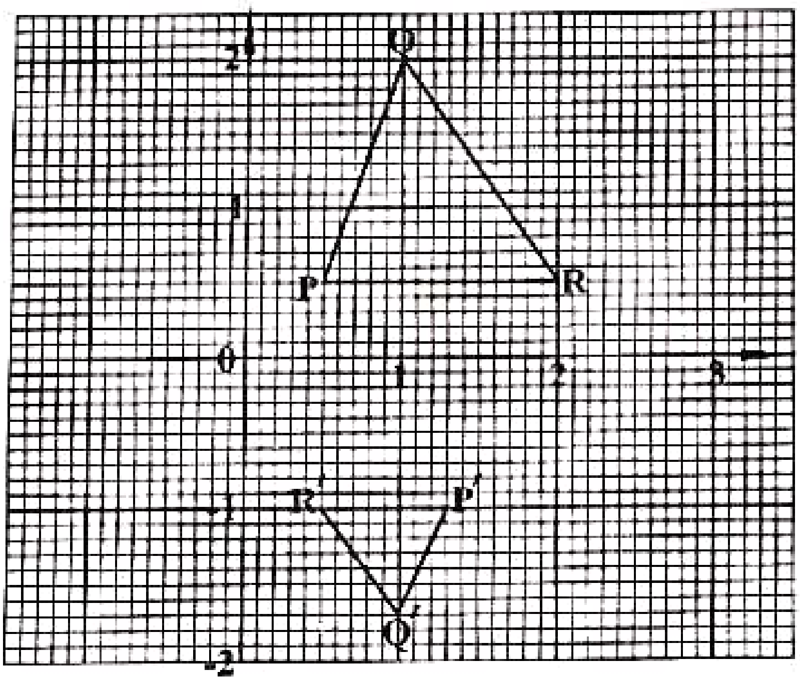

Figure 2

a. Find the coordinates of the centre of enlargement. **(3 marks)**

b. Find the scale factor of the enlargement. **(2 marks)**

15. The sum of interior angles of a regular convex polygon is 2160°. Find the number of sides (n) of the polygon. **(4 marks)**

Continued/…

16. **Figure 3** shows a circle **ABCD** in which **CY** is a tangent at **C** and angle **BYC** = 36°.

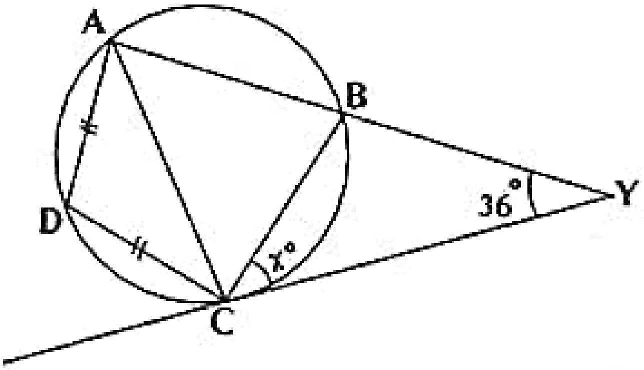

Figure 3

If **AD** = **CD**, angle **ACB** = 2 angle **BCY** and angle **BCY** = $x°$, calculate the value of angle **CAD**. **(6 marks)**

Continued/…

17. The ages of five students in a study circle were 14, 13, 15 13, 15. Find the standard deviation of the ages of the students, giving the answer correct to two decimal places. **(6 marks)**

Continued/…

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18. On the same axes, draw graphs to show the region represented by the following inequalities. Shade the unwanted region.

$$x \geq 0$$

$$x + y \leq 8$$

$$x - 2y + 4 \geq 0$$

(5 marks)

Continued/…

19. **Figure 4** is a solid object made up of a cylinder and a hemisphere.

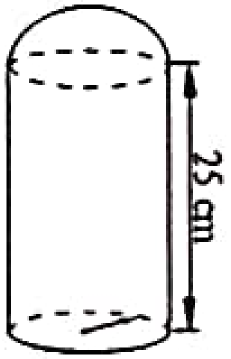

Figure 4

If radius $(r) = 21$ cm and height $(h) = 25$ cm, calculate the total surface area of the object. $\left(\text{Take } \pi = \frac{22}{7}\right)$. **(6 marks)**

Continued/...

20. Using a pair of compasses and a ruler only, construct triangle **DEF** in which **DF** = 8 cm, **DE** = 5.5 cm and angle **FDE** = 90°. In the same diagram, draw an inscribed circle to triangle **DEF**. **(6 marks)**

END OF QUESTION PAPER

NB: This paper contains 14 printed pages.

EXAMINATION NO.:__________________

2022 **M131/I**

19

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/II

Friday, 9 September

Time Allowed: 2 h 30 min
8:00 – 10:30 am

PAPER II

(100 marks)

Instructions

1. **This paper contains 19 printed pages. Please check.**
2. Answer **all** the **six** questions in Section A and any **four** questions from Section B.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided on the question paper.
5. Scientific calculators may be used.
6. The blank answer sheet at the end of the question paper can be used if required.
7. **All working must be clearly shown.**
8. Write your **Examination Number** at the top of each page of your question paper in the spaces provided.
9. In the table provided on this page, **tick against** the question number you have answered.

Question Number	Tick if answered	Do not write in these columns	
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Turn over

Section A (60 marks)

Answer **all** the **six** questions in this section.

1. a. Express $\frac{2a}{a^2+3a+2} + \frac{a}{(a+1)(a-2)}$ as a single fraction. **(5 marks)**

b. Evaluate $\frac{\log 4 - \log 25}{1+2\log\frac{1}{5}}$. **(5 marks)**

Continued/…

2. a. Given that $\mathbf{M} = \{1, 4, 5, 7, 8, 9, 10, 16, 19\}$, $\mathbf{A} = \{\text{old numbers}\}$ $\mathbf{H} = \{5, 9, 16, 19\}$ and sets **A** and **H** are subsets of **M**, find $n(\mathbf{A} \cap \mathbf{H})$. **(4 marks)**

b. Two triangles **TPU** and **SRU** are similar. If **PU** = 5 cm and **RU** = 2 cm, find the ratio of area of triangle **TPU** to area of triangle **SRU** in its simplest form. **(3 marks)**

Continued/…

3. a. The width of a rectangular garden is 4 metres shorter than its length. If the area of the garden is 77 m^2, calculate the length of the garden. **(5 marks)**

Continued/...

3. (Continued)

b. The cost (C) of running a restaurant per day is partly constant and partly varies as the square of the number of customers (N). When the number of customers is 12, the cost is K5 940 and when there are 20 customers, the cost is K8 500. Formulate an equation that connects the cost (C) and the number of customers (N).

(6 marks)

Continued/…

4. a. Prove the theorem which states that an angle which an arc of a circle subtends at the centre is twice the angle which it subtends at any point on the circumference. **(6 marks)**

Continued/…

4. **(Continued)**

b. Solve the following equations simultaneously

$$f - 1 = e$$
$$3f - e^2 - 3 = 0$$

(6 marks)

Continued/…

5. a. **Figure 1** shows a cyclic quadrilateral **ABCD** in which **ABD** is an equilateral triangle.

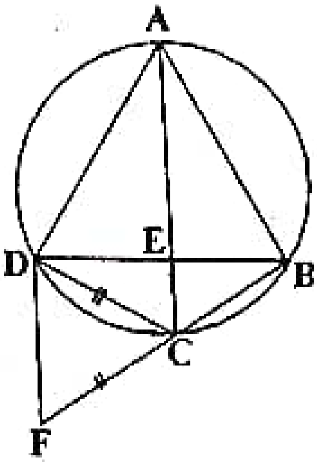

Figure 1

If **BC** is produced to **F** such that **CF** = **CD** and **F** is joined to **D**, show that **AC** is parallel to **DF**. **(6 marks)**

5. (Continued)

b. A boat started off from a shore and accelerated uniformly to 10 m/s in 5 seconds. It maintained this speed for the next 5 seconds after which it again accelerated uniformly for 10 seconds to 20 m/s. It then decelerated uniformly for 5 seconds and stopped.

Using a scale of 2 cm to represent 5 seconds on both axes, draw a velocity-time graph on the graph paper below to represent the motion of the boat. **(4 marks)**

Continued/…

6. a. The probability of a farmer planting maize early is $\frac{3}{5}$. When he plants early the probability of getting a good harvest is $\frac{4}{5}$ and when he plants late, the probability of getting a good harvest is $\frac{2}{5}$. Calculate the probability of getting a poor harvest. **(5 marks)**

6. (Continued)

b. A ship sails on a bearing of 300° from port **P** to port **A**, a distance of 7 km. It then sails a further 15 km on a bearing of 075° to port **B**. Calculate the distance between port **P** and port **B**, giving the answer correct to **one** decimal place. **(5 marks)**

Continued/…

6. **(Continued)**

b. A ship sails on a bearing of 300° from port **P** to port **A**, a distance of 7 km. It then sails a further 15 km on a bearing of 075° to port **B**. Calculate the distance between port **P** and port **B**, giving the answer correct to **one** decimal place. **(5 marks)**

Continued/…

Section B (40 marks)

Answer any **four** questions from this section

7. **Table 1** shows some values of x and y for the equation $y = x^3 - 2x^2 - 8x + 2$.

Table 1

x	-3	-2	-1	0	1	2	3	4
y	-19		7	2	-7	-14		2

a. Complete the table of values. **(1 mark)**

b. Using a scale of 2 cm to represent 1 unit on horizontal axis and 2 cm to represent 5 units on vertical axis, draw the graph of $y = x^3 - 2x^2 - 8x + 2$ on the graph paper on **page 13.** **(5 marks)**

c. Use the graph in **(b)** to solve the equation $x^3 - 2x^2 - 5.5x + 7 = 0$. **(4 marks)**

Continued/…

7. b. (Continued)

Continued/…

8. Solve the equation $4m^3 = 12m^2 + m - 3$. **(10 marks)**

9. The following are marks of a test for some students at a certain secondary school:

19	13	12	12	9	3	18	8	12	9
22	8	18	14	13	18	7	2	23	14
4	24	14	7	19	12	7	17	14	9

a. Using class intervals: 1 – 5, 6 – 10, 11 – 15, …, construct a frequency distribution table for the marks. **(3 marks)**

9. (Continued)

b. Using the frequency distribution table, find the modal class.
(1 mark)

c. Using a scale of 2 cm to represent 5 unit on horizontal axis and 2 cm to represent 2 units on vertical axis, draw a histogram on the graph paper below. **(6 marks)**

9. **(Continued)**

b. Using the frequency distribution table, find the modal class. **(1 mark)**

c. Using a scale of 2 cm to represent 5 unit on horizontal axis and 2 cm to represent 2 units on vertical axis, draw a histogram on the graph paper below. **(6 marks)**

Continued/…

10. **Table 2** shows the number of people required per hectare and the cost of labour required per hectare for a farmer to grow maize and groundnuts.

Table 2

Crop	**Number of people required per hectare**	**Cost of labour required per hectare**
Maize	8	K2 000
Groundnuts	6	K3 000

The farmer has K90 000 to spend on hiring at least 120 people and planting at most 20 hectares of groundnuts.

a. Taking x to represent the number of hectares for maize and y to represent the number of hectares for groundnuts, formulate **two** inequalities in x and y in addition to $y \geq 0$ and $y \leq 20$ that satisfy the information above. **(3 marks)**

b. Using a scale of 2 cm to represent 10 units on both axes, draw graphs on the graph paper on **page 17** to show the region represented by the **four** inequalities. Shade the unwanted region. **(4 marks)**

c. Use the graphs to find the maximum profit the farmer could make if he sells maize at a profit of K20 000 per hectare and groundnuts at K40 000 per hectare. **(3 marks)**

Continued/...

10. b. (Continued)

Continued/…

11. The third term of a Geometric Progression (GP) is 18 and the sixth term is 486. Find the sum of the first seven terms of the GP.

(10 marks)

Continued/…

12. **Figure 2** shows triangle **ABC** in which **AD**: **DB** = 1 : 4 and **CE** : **EB** = 5 : 2.

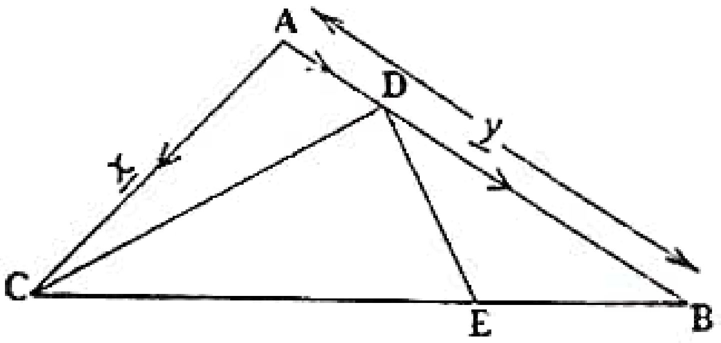

Figure 2

If $\overrightarrow{AC} = \underset{\sim}{x}$ and $\overrightarrow{AB} = \underset{\sim}{y}$, express $\overrightarrow{DE}$ in terms of $\underset{\sim}{x}$ and $\underset{\sim}{y}$ in its simplest form.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 19 printed pages.

EXAMINATION NO.: ______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

PHYSICS

Subject Number: M164/I

Thursday, 8 September

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Theory

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. Write your **Examination Number** at the top of each page od this question paper.
3. This paper has **two** sections, **A** and **B**. In Section **A** there are **ten** short answer questions while in Section **B** there are **three** essay questions.
4. Answer **all** the **thirteen** questions in the spaces provided.
5. Use of electronic calculators is allowed.
6. The maximum number of marks for each answer is indicated against each question.
7. In the table provided on this page, **tick** against the number of the question you have answered.
8. Hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in this section.

1. a. **Figure 1** is a graph which was plotted after conducting an experiment in which different masses were hung from the end of a spring held on a stand to find extension of the spring.

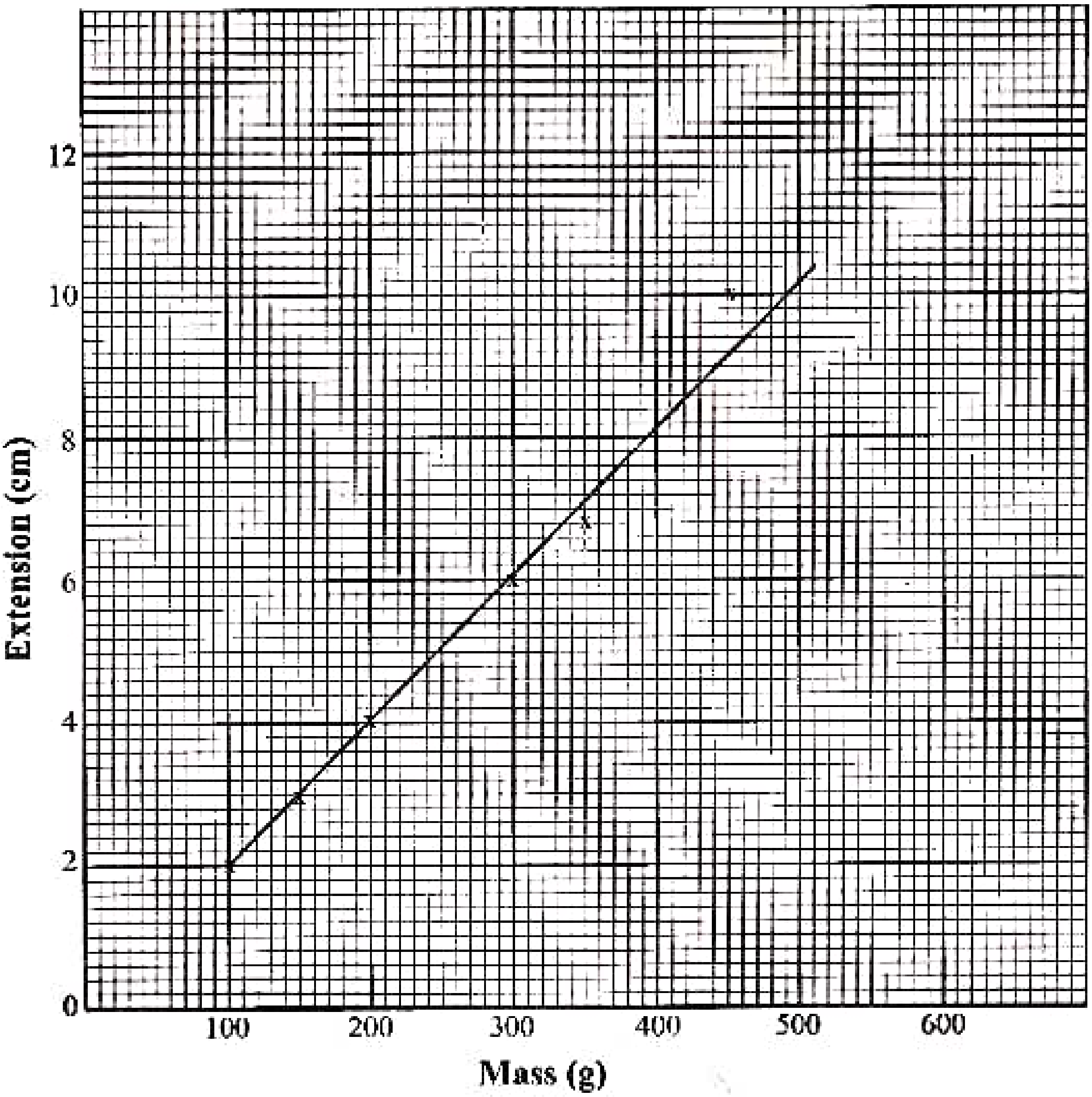

Figure 1

(i) State the relationship between extension and mass shown by the graph.

____

(1 mark)

(ii) Find the extension on the spring when a 400g mass is hung on the spring.

____

(1 mark)

Continued/...

1. a. (Continued)

(iii) Derive the unit of the slope of the graph.

____

(1 mark)

(iv) Give a reason for the points lying outside the graph line.

____

(1 mark)

b. Give the reason for repeating an experiment and taking an average of the results.

____

____

(1 mark)

c. Give any **two** factors that can affect the speed of sound in air.

____

____

(2 marks)

2. a. Give any **two** effects of the unusual expansion of water.

____

____

(2 marks)

b. (i) State the Archimedes principle.

____

____

(1 mark)

(ii) Calculate the upthrust force on the stone that has a mass of **60kg** and weighs **40N** in water.

(4 marks)

Continued/...

3. a. Give any **two** dangers of radioactive substances.

____

____

(2 marks)

b. **Table 1** shows radioactive isotopes and their half-lives.

Table 1

Isotope	**Half-life**
Carbon	5,600 years
Calcium	30 years
Iodine	8 days
Sodium	15 hours

(i) Which isotope is ideal to be used as a tracer in medicine?

____

(1mark)

(ii) Give a reason for the answer in **3c (i).**

____

____

(1 mark)

c. Calculate the amount of current introduced in the primary coil of a **100%** efficient transformer if it converts **400V** to **200V** in order to operate a **5A** hair drier.

(3 marks)

4. a. Give any **one** factor that can affect the frequency of a cantilever.

____

(1 mark)

4. (Continued)

b. **Figure 2** is a diagram of a wave.

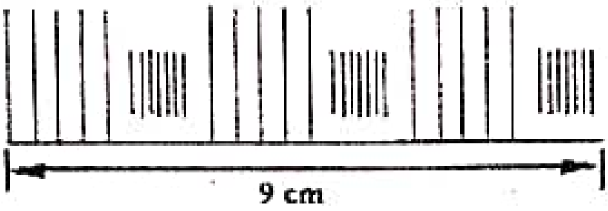

Figure 2

(i) Name the type of wave drawn in **Figure 2**.

____

(1 mark)

(ii) Calculate the wave length.

(2 marks)

(iii) Calculate the wave speed given that the wave has a frequency of 0.5Hz

(3 marks)

Continued/…

5. a. Explain how the length of an inclined plane affects its mechanical advantage.

____

____

____

(3 marks)

Figure 3 is a diagram showing a block with **two** forces acting on either directions at 30°. Use it to answer the question that follow.

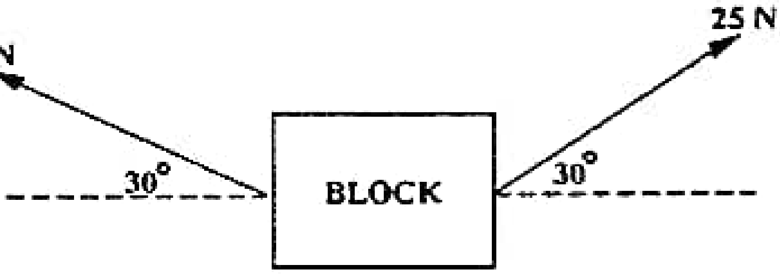

Figure 3

b. Assuming the surface is frictionless, calculate the resultant force if the block is moving horizontally on surface.

(4 marks)

6. a. List any **three** examples of levers.

____

____

____

(3 marks)

Continued/...

6. **(Continued)**

b. **Figure 4** is a diagram showing an inclined plane being used to raise a load of **500N** to a height of **4m** using a force of **150N**.

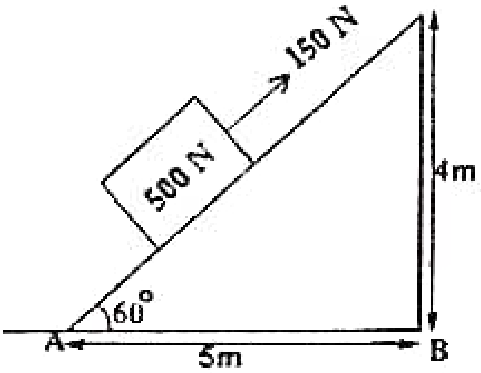

Figure 4

(i) Calculate the work done in the horizontal direction.

(3 marks)

(ii) How will energy used up in doing this work be determined?

____

____

(1 mark)

7. a. State the principle of transmission of pressure in fluids.

____

____

(1 mark)

Continued/…

7. (Continued)

Figure 5 is a diagram of a hydraulic machine with pistons **1** and **2** acting in different directions.

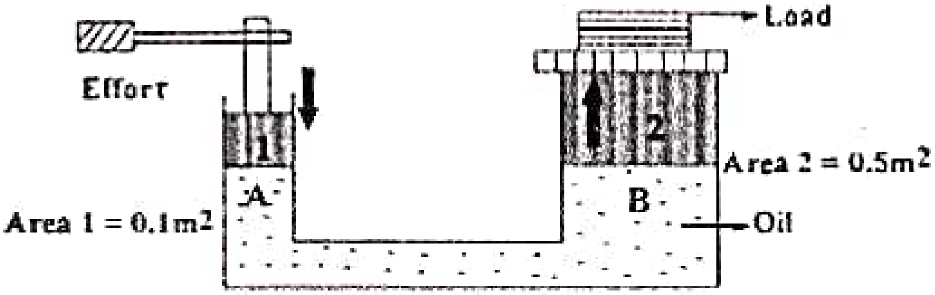
Effort
1
A
Area 1 = 0.1m2
2
B
Area 2 = 0.5m2
Load
Oil

Figure 5

b. Determine:

(i) pressure exerted on the oil by piston **1** at Point **A** if a force of **200N** is applied on the handle.

(2marks)

Continued/…

7. b. ***(Continued)***

(ii) force exerted on piston **2** by oil.

(4 marks)

8. a. (i) State **one** property that is common for both liquids and gases.

____

(1 mark)

(ii) Give **two** effects of anomalous expansion of water.

____

____

(2 marks)

b. Mention any **two** ways in which electromagnetic spectrum is emitted.

____

____

(2 marks)

c. A spiral spring vibrates at the rate of 20 cycles for every 5 seconds, calculate the frequency of the waves produced.

(2 marks)

Continued/…

9. a. Give any **two** factors which affect the electrical resistance of a conductor.

____

____

(2 marks)

b. Calculate the resistance of the resistor that has been given in a standard notation in **Figure 6.**

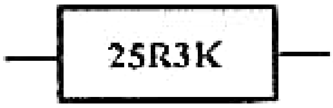

Figure 6

(1 mark)

c. **Table 2** shows standard notation used on carbon resistors.

Table 2

Notation	Meaning
R27	0.27 Ω
2R7	2.7 Ω
3K0	3,000 Ω
5K6	5,600 Ω
47K	47,000 Ω
2M2	2,200,000 Ω

Extra letter
F±1%, G±2%, J±5%, K±10%, M±20%

(i) Calculate the value of the resistor marked 8K2J.

(2 marks)

(ii) Write down the standard notation of resistor of value 3,300,000 ± 20%.

(2 marks)

Continued/...

10. **Table 3** shows the results obtained from an experiment to find the relationship between length of a nichrome wire and resistance.

Table 3

Length of wire (cm)	Current (A)	Voltage (V)	Resistance
100	0.2	1.2	
80	0.4	1.0	
60	0.6	0.8	

a. Calculate the resistance of each length of the wire and record under resistance in the table. **(3 marks)**

b. (i) Plot a graph of resistance against length on the graph paper below.

(3 marks)

(ii) State the relationship between length of nichrome wire and resistance.

(1 mark)

Continued/...

Section A (30 marks)

Answer **all** the questions in this section.

11. a. Explain in terms of the kinetic theory of matter why a piece of sweet melts when it is put in a mouth of a person.

(5 marks)

b. With the aid of a diagram, describe how destructive interference occurs.

(5 marks)

Continued/…

12. a. Explain how sinking and floating of submarines are made possible.

____

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(5 marks)

b. Briefly, explain how a concave type of lens assists a short sighted-person.

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(5 marks)

Continued/…

13. a. With the aid of a well labelled diagram, describe how a thermocouple thermometer works.

(5 marks)

b. Explain how the decrease in temperature affects the molecular motion.

(5 marks)

END OF QUESTION PAPER

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EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL STUDIES

Friday, 9 September **Subject Number: M193/II**

Time Allowed: 2 hours

1:30 – 3:30 pm

PAPER II

(100 marks)

Instructions

1. **This paper contains 9 printed pages. Please check.**
2. There are two sections in this paper, A and B
3. Answer **all** questions in Section **A** and any **two** in Section **B**.
4. All the answers should be written in the spaces provided.
5. Write your **Examination Number** on top of each page of your question paper.
6. In the table provided on this page, **tick** against the question number you have answered.
7. Hand in your answer sheet to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in the spaces provided.

1. a. State any **two** examples of unlimited human rights.

____

____

(2 marks)

b. Explain any **two** ways in which preservation of culture is important.

____

____

____

____

(4 marks)

c. Explain any **two** roles of unions and associations.

____

____

____

____

(4 marks)

2. a. State any **two** conventions for protecting human rights for special groups.

____

____

(2 marks)

b. Describe any **two** weaknesses of a written constitution.

____

____

____

____

(4 marks)

Continued/...

2. (Continued)

c. Describe any **two** types of development work which international organizations undertake in developing countries.

____

____

____

____

(4 marks)

3. a. Mention any **two** forms of violence in the home.

____

____

(2 marks)

b. Describe any **two** roles of opposition political parties in a democratic country.

____

____

____

____

(4 marks)

c. Describe any **two** successes made by international organizations in promoting social justice.

____

____

____

____

(4 marks)

Continued/...

4. a. Give any **one** way in which the central government of Malawi sources its revenue.

____

(1 mark)

b. A support staff of a certain institution obtained a loan from village bank. Few months later, he failed to repay the loan and decided to run away.

(i) What term **best** describes the situation faced by the support staff?

____

(1 mark)

(ii) Explain any **two** possible cause of such a situation.

____

____

____

____

(4 marks)

c. Explain any **two** environmental impacts of refugees in the world.

____

____

____

____

(4 marks)

5. a Mention any **two** key elements of population policies in Malawi.

____

____

(2 marks)

Continued/...

5. (Continued)

b. Describe any **two** challenges faced in the implementation of conventions for protection of refugees in the world.

____

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(4 marks)

c. Explain any **two** ways in which setting standards in provision of social services are important.

____

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____

(4 marks)

6. a. Give any **two** ways in which citizens can participate in national service.

____

____

(2 marks)

b. Explain any **two** factors that can help to preserve marriage.

____

____

____

____

(4 marks)

Continued/...

6. **(Continued)**

c. Describe any two programmes that have been put in place to implement the Malawi Population policy.

____

____

____

____

(4 marks)

7. a. Country **X and Y** made an initiative to address duplication regarding the issue of taxation between them.

(i) What term **best** describes the initiative made by the two countries?

____

(1 mark)

(ii) Explain any **two** positive impacts of the initiative on national developments of the two countries.

____

____

____

____

(4 marks)

b. State any **one** tax offence.

____

(1 mark)

c. Explain any **two** effects of over indebtedness in a country.

____

____

____

____

(4 marks)

Continued/...

SECTION B – ESSAYS

(30 marks)

In an essay form answer any **two** questions from this section in the spaces provided.

8. Explain any **five** factors that prevent perspective customers from accessing financial services.

(15 marks)

Continued/...

9. Explain any **five** positive impacts of multiculturalism on development.

(15 marks)

Continued/...

10. Describe any **five** qualities of responsible parenthood.

(15 marks)

END OF QUESTION PAPER

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EXAMINATION NO.: ____________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL STUDIES

Subject Number: M193/I

Wednesday, 7 September

Time Allowed: 1 hour
11:30 – 12:30 pm

PAPER I

(50 marks)

Instructions

1. **This paper contains 7 printed pages. Please check.**
2. This paper has **50** multiple choice questions. **Each question carries 1 mark.**
3. **Before you begin, write** your examination number on each page.
4. Answer **all** questions by **encircling** the letter that corresponds to the correct answer.
5. Hand in your answer sheet to the invigilator when time is called to stop writing.

Sample Question
Which of the following is **not a** cause for national conflict?

A. land disputes
B. religious disputes
[✓ C.] marriage disputes
D. ethnic rivalry

The correct answer **C** to the sample question is then encircled as it is shown above.

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EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL STUDIES

Subject Number: M193/I

Wednesday, 7 September

Time Allowed: 1 hour
11:30 – 12:30 pm

PAPER I

(50 marks)

Instructions

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The correct answer **C** to the sample question is then **encircled** as it is shown above.

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Turn over

1. Which of the following social services is essential for industrial production processes?
   - A. transport
   - B. communication
   - C. electricity
   - D. health

2. Why is teaching in adult literacy programme regarded as a national service?
   - A. participants are registered with the government
   - B. people taught are bonified Malawians
   - C. it is done on voluntary basis
   - D. lessons taught are recognised by the government

3. Which of the following factors increases vulnerability to earthquakes?
   - A. size of building
   - B. closeness to the sea
   - C. poorly designed houses
   - D. unhealthy living conditions

4. Which of the following are types of labour laws in Malawi?
   1. single
   2. individual
   3. dual
   4. collective

   - A. 1 and 2
   - B. 1 and 3
   - C. 2 and 4
   - D. 3 and 4

5. Which of the following is an irresponsible human practice on wildlife?
   - A. overgrazing
   - B. poaching
   - C. overstocking
   - D. culling

People in the area **Y** maintained a school block that was blown off by strong winds use this information to answer questions **6** and **7.**

6. Which of the following **best** describes the arrangement made by the people in the area?
   - A. sustainable development
   - B. national service
   - C. self-reliance
   - D. voluntary work

7. What are the benefits of the arrangement made by people in the area?
   1. It promotes patriotism and pride.
   2. It fosters cooperation among people.
   3. It promotes individual initiative.
   4. It enhances respect for traditional leaders.

   - A. 1, 2 and 3
   - B. 1, 2 and 4
   - C. 1, 3 and 4
   - D. 2, 3 and 4

8. Which of the following bodies determine when and where United Nations peace keeping operations should be deployed?
   - A. General Assembly
   - B. Security Council
   - C. International Court
   - D. International Police

9. Which of the following dimensions involves transfer of power to use revenue collected?
   - A. administrative
   - B. political
   - C. fiscal
   - D. social

Continued/...

A sixteen-year-old boy has been found guilty of having sex with a three-year-old girl. Use this information to answer questions **10** and **11**.

10. Which of the following **best** describes the crime committed by the boy?
A. incest
B. rape
C. defilement
D. sodomy

11. Which of the following social services institutions is needed by the boy?
A. prison
B. police
C. mental hospital
D. reformatory centre

12. What term is given to a pledge of assets that one makes with the bank in order to access a loan?
A. interest
B. collateral
C. premium
D. mortgage

13. Which of the following are civic duties of a citizen?
1. paying tax
2. obeying the law
3. tolerance
4. cooperation

A. 1 and 2
B. 1 and 3
C. 2 and 4
D. 3 and 4

14. Which of the following aspects of development is achieved when people use money cards?
A. social
B. technological
C. political
D. economic

15. Which of the following elements of East African culture is a result of interaction with the Arabs?
A. Kiswahili language
B. arranged marriages
C. Kimbanguism religion
D. Kwasakwasa music

16. Which of the following programs is used for implementing population policies in Malawi?
A. reproductive health
B. gender equity
C. research and analysis
D. religious and education

17. Which of the following are characteristics of social skills?
1. They are goal directed.
2. They are interrelated.
3. They can be taught.
4. They are specific to people

A. 1, 2 and 3.
B. 1, 2 and 4
C. 1, 3 and 4
D. 2, 3 and 4

18. The following are **key** elements of international labour laws **except**?
A. employment
B. conditions of work
C. competition
D. social security

Continued/...

19. Which of the following is the **main** role of citizens in formulating and changing taxes?
A. attending meetings for getting views
B. submitting tax proposals to government
C. adopting proposed tax laws
D. debating proposed tax laws

20. What policy is aimed at protecting domestic infant industries?
A. privatization
B. economic liberalisation
C. import substitution
D. free trade

21. The earnings from shares earned in a company are called
A. compensation.
B. dividends.
C. interests.
D. profit.

22. Which of the following is the role of international court of justice?
A. disseminating crime-related data
B. lobbying for sanctions against criminals
C. resolving conflicts between countries
D. trying those accused of serious crimes

23. Which of the following factors affect the implementation of conventions for protecting human rights
A. emergence of complex global issues
B. ratification of the agreement
C. urbanisation
D. modernisation

People of Dalura village were consulted and trained before the construction of a bridge in the area. Use this information to answer questions **24** and **25.**

24. Which condition for sustainable development is being addressed?
A. policy measure
B. education
C. interdependence
D. grassroot participation

25. What is the importance of giving training to the villagers before the project commences?
A. helps people to generate income on it
B. helps people to establish partnership in development
C. teaches people on how to maintain it
D. teaches people on how to use available resources

26. Which of the following are social services needed for special groups?
1. indoor games
2. drop-in centres
3. mental hospitals
4. reformatory centres
A. 1 and 2
B. 1 and 3
C. 2 and 4
D. 3 and 4

27. Why should population growth be controlled?
A. to ensure availability of resources
B. to eliminate HIV and AIDS pandemic
C. to have enough people in the world
D. to provide business to organisations

Continued/...

28. How does Centre for Human Rights and Rehabilitation promote rights for special groups?
A. by investigating cases of injustice
B. by enhancing the welfare of people with disabilities
C. by raising awareness campaign of human rights
D. by hearing cases of human rights violations

29. Which of the following principles of taxation describe collection of tax just enough for provision of public services?
A. earmarking
B. adequacy
C. efficiency
D. neutrality

30. Which of the following is a way of avoiding conflicts?
A. embargo
B. sanctions
C. contact and dialogue
D. early warning systems

31. Which of the following laws are gender biased?
1. customary
2. statutory
3. Citizenship Act
4. religious laws

A. 1, 2 and 3
B. 1, 2 and 4
C. 1, 3 and 4
D. 2, 3 and 4

32. Which of the following are the attempts that Malawi has made in order to promote gender equality in education.
1. readmission of girls in schools
2. establishing the scholarship fund for girls
3. promoting cultural beliefs and practices for girls
4. giving equal access in schools for boys and girls

A. 1, 2 and 3
B. 1, 2 and 4
C. 1, 3 and 4
D. 2, 3 and 4

33. Which of the following institutions protects economic rights of citizens?
A. courts
B. schools
C. military
D. banks

34. Why is it important for nations to depend on each other?
A. it helps in combating diseases
B. it helps in combating sporting activities
C. it helps to combat trade
D. it helps in combating cultural activities

35. Which of the following terms refers to fairness and principles of justice?
A. gender equality
B. gender bias
C. gender equity
D. gender rights

Continued/...

36. Which of the following international organizations foster development?
1. European Union
2. Amnesty International
3. Human Rights Watch
4. Department International Development

A. 1 and 3
B. 1 and 4
C. 2 and 3
D. 2 and 4

37. The following are ways of preventing violence except
A. warning systems.
B. inclusion.
C. respect of human rights.
D. avoidance.

38. In which of the following ways are social services important?
1. encourages foreign direct investment
2. enables people to relax
3. removes stress and anxiety
4. provides voluntary cleaning services

A. 1, 2 and 3
B. 1, 2 and 3
C. 1, 3 and 4
D. 2, 3 and 4

39. Which of the following is an indicator of political development?
A. infrastructure
B. high life expectancy
C. access to sanitation facilities
D. rule of law

40. Which of the following people belongs to special group?
A. farmers
B. traditional leaders
C. prisoners
D. traditional dancers

41. Which of the following institution is responsible for taxes in Malawi?
A. Malawi Gaming Board
B. Malawi Revenue Authority
C. Malawi Police
D. Malawi Bureau of Standards

42. Which of the following is an example of a direct tax?
A. income tax
B. value added tax
C. withholding tax
D. non resident tax

43. Which of the following has contributed to rapid population growth in Malawi?
A. pressure on resources
B. medical innovations
C. unemployment
D. high dependency burden

44. Which of the following factors enhances multiculturalism?
A. discrimination
B. intermarriages
C. cultural dilution
D. economic exploitation

45. Which of the following is a fundamental principle of the constitution of Republic of Malawi?
A. national anthem
B. lawful authority
C. public seal
D. national interest

Continued/...

46. Which of the following are the impacts of climate change in Malawi?

1. shortage of water
2. threats to forest
3. loss of property
4. lack of land resources

A. 1 and 2
B. 1 and 3
C. 2 and 4
D. 3 and 4

47. Which of the following types of families are likely to be large?

1. nuclear
2. extended
3. blended
4. child-headed

A. 1 and 2
B. 1 and 4
C. 2 and 3
D. 3 and 4

48. Which of the following is a characteristic of African cultures?

A. education
B. health
C. recreation
D. marriage

49. Which of the following is a way of becoming a citizen by tracing where your parents came from?

A. marriage
B. restoration
C. naturalization
D. descent

50. Which of the following arm of government is responsible for the interpretation of the laws and policies of a nation?

A. the legislature
B. the judiciary
C. the state
D. the executive

END OF QUESTION PAPER

NB: This paper contains 7 printed pages

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

SOCIAL STUDIES

Friday, 9 September **Subject Number: M193/II**

Time Allowed: 2 hours
1:30 – 3:30 pm

PAPER II

(100 marks)

Instructions

1. **This paper contains 9 printed pages. Please check.**
2. There are two sections in this paper, **A** and **B**
3. Answer **all** questions in Section **A** and any **two** in Section **B**.
4. **All** the answers should be written in the spaces provided.
5. Write your **Examination Number** on top of each page of your question paper.
6. In the table provided on this page, **tick against** the question number you have answered.
7. Hand in your answer sheet to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
	Total		

PLEASE DO NOT TURN OVER UNTIL YOU ARE TOLD TO DO SO.

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Section A (70 marks)

Answer **all** the questions in the spaces provided.

1. a. State any **two** examples of unlimited human rights.

____

____

(2 marks)

b. Explain any **two** ways in which preservation of culture is important.

____

____

____

____

(4 marks)

c. Explain any **two** roles of unions and associations.

____

____

____

____

(4 marks)

2. a. State any **two** conventions for protecting human rights for special groups.

____

____

(2 marks)

b. Describe any **two** weaknesses of a written constitution.

____

____

____

____

(4 marks)

Continued/...

2. (Continued)

c. Describe any **two** types of development work which international organizations undertake in developing countries.

____

____

____

____

(4 marks)

3. a. Mention any **two** forms of violence in the home.

____

____

(2 marks)

b. Describe any **two** roles of opposition political parties in a democratic country.

____

____

____

____

(4 marks)

c. Describe any **two** successes made by international organizations in promoting social justice.

____

____

____

____

(4 marks)

Continued/...

4. a. Give any **one** way in which the central government of Malawi sources its revenue.

____

(1 mark)

b. A support staff of a certain institution obtained a loan from village bank. Few months later, he failed to repay the loan and decided to run away.

(i) What term **best** describes the situation faced by the support staff?

____

(1 mark)

(ii) Explain any **two** possible cause of such a situation.

____

____

____

____

(4 marks)

c. Explain any **two** environmental impacts of refugees in the world.

____

____

____

____

(4 marks)

5. a Mention any **two** key elements of population policies in Malawi.

____

____

(2 marks)

Continued/...

5. **(Continued)**

b. Describe any **two** challenges faced in the implementation of conventions for protection of refugees in the world.

____

____

____

____

(4 marks)

c. Explain any **two** ways in which setting standards in provision of social services are important.

____

____

____

____

(4 marks)

6. a. Give any **two** ways in which citizens can participate in national service.

____

____

(2 marks)

b. Explain any **two** factors that can help to preserve marriage.

____

____

____

____

(4 marks)

Continued/...

6. (Continued)

c. Describe any **two** programmes that have been put in place to implement the Malawi Population policy.

____

____

____

____

(4 marks)

7. a. Country **X and Y** made an initiative to address duplication regarding the issue of taxation between them.

(i) What term **best** describes the initiative made by the two countries?

____

(1 mark)

(ii) Explain any **two** positive impacts of the initiative on national developments of the two countries.

____

____

____

____

(4 marks)

b. State any **one** tax offence.

____

(1 mark)

c. Explain any **two** effects of over indebtedness in a country.

____

____

____

____

(4 marks)

Continued/...

SECTION B – ESSAYS

(30 marks)

In an essay form answer any **two** questions from this section in the spaces provided.

8. Explain any **five** factors that prevent perspective customers from accessing financial services.

(15 marks)

Continued/...

9. Explain any **five** positive impacts of multiculturalism on development.

(15 marks)

Continued/...

10. Describe any **five** qualities of responsible parenthood.

(15 marks)

END OF QUESTION PAPER

NB: This paper contains 9 printed pages.

10. Describe any **five** qualities of responsible parenthood.

(15 marks)

END OF QUESTION PAPER

NB: This paper contains 9 printed pages.

EXAMINATION NO.:___________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2020 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

AGRICULTURE

Subject Number: M012/I

Wednesday, 20th January 2021

Time Allowed: 2 hours
8:00 – 10:00am

PAPER I

(100 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. This paper has two sections, **A** and **B**. Section **A** has **ten** questions and Section **B** has **three** questions.
3. Answer **all** questions in the spaces provided
4. Write your **Examination Number** on all pages.
5. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
1			
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Section A (70 marks)

Answer **all** questions in the spaces provided.

1. a. Name any **two** crops that use runners for propagation.

____

____

(2 marks)

b. Give any **two** advantages of drilling as a method of pasture establishment.

____

____

(2 marks)

c. Explain **one** way in which pelleting pasture seeds with rock phosphate is important in pasture establishment.

____

____

(2 marks)

d. Explain any **one** way in which agricultural cooperatives are important in agricultural production.

____

____

(2 marks)

2. a. Name any **two** macro nutrients of crop plants responsible for protein formulation.

____

____

(2 marks)

b. A maize plant in a garden shows the following deficiency signs
   - scorching of the leaf edges
   - mottled chlorosis of leaves
   - leaf curling

i. Mention the nutrient that is lacking in the soil.

____

(1 mark)

Continued/...

2. b. (Cont'd)

ii. Give any **two** ways of controlling the deficiency symptoms of the maize plant.

____

____

(2 marks)

c. **Figure 1** is a diagram showing a cropping system. Use it to answer questions that follow.

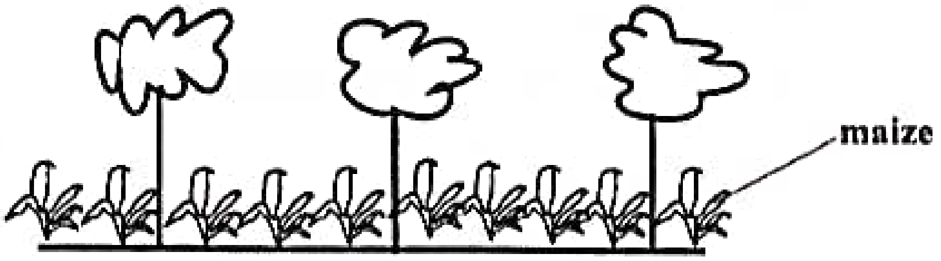

Figure 1

i. Identify the type of cropping system.

____

(1 mark)

ii. State any **two** advantages of the cropping system.

____

____

____

____

(2 marks)

d. Describe any **two** effects of population distribution on marketing of agricultural produce.

____

____

____

____

(4 marks)

Continued/...

10. (Cont'd)

iii. Outline any **two** factors that the farmer kept constant in the experiment.

(2 marks)

b. A farmer has the following equipments: wire mesh, slasher, knapsack sprayer and a dipping tank.

Describe any **two** ways the farmer would control external parasites using the available resources.

(4 marks)

Continued/...

3. a. State any **two** economic principles in farm business decision making.

____

____

(2 marks)

b. **Table 1** shows a record that was kept by a farmer. Use it to answer question 3(b).

Table 1

Yield of maize (kg)	Variable costs (MK)	Fixed costs (MK)
2000	180 000	220 000

Calculate the break-even price of maize on the farm.

(3 marks)

c. Classify the following pasture grasses into **indigenous** and **exotic** groups; star grass, rapoko grass and elephant grass.

(3 marks)

Continued/...

4. **Figure 2** shows a diagram of a cow being milked. Use it to answer questions that follow.

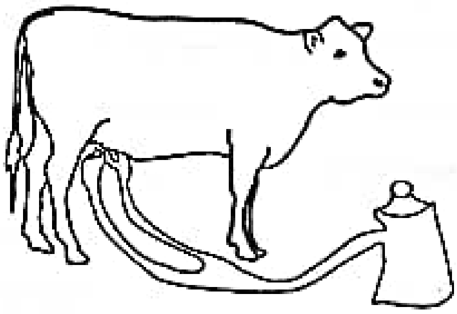

Figure 2

(i) State one advantage of using the machine to milk the cow.

____

(1 mark)

(ii) Explain any two factors a farmer should consider before acquiring the farm machinery.

____

____

____

____

(4 marks)

5. a. A farmer cultivates maize on the same piece of land yearly. He however would like to plant maize and beans on the same rows the following year. Use the information to answer questions a (i) to a (iii).

(i) Name the type of budget the farmer will prepare in the following year.

____

(1 mark)

Continued/...

(ii) State any **one** use of the budget in 2a (i).

____
(1 mark)

(iii) Explain any **one** way in which the cropping system would support crop production.

____

____
(2 marks)

b. State any **one** advantage of bio drainage.

____

____
(1 mark)

6. a. Describe any **one** characteristic to look for when choosing parents for cross-breeding beef cattle.

____

____
(2 marks)

b. (i) Name a disease which a cow is likely to develop when it is producing large quantities of milk.

____
(1 mark)

(ii) State any **two** ways of controlling the disease.

____

____
(2 marks)

7. a. State any **two** main areas of an experimental report.

____

____
(2 marks)

Continued/...

Section A (70 marks)

Answer **all** questions in the spaces provided.

1. a. Name any **two** crops that use runners for propagation.

____

____

(2 marks)

b. Give any **two** advantages of drilling as a method of pasture establishment.

____

____

(2 marks)

c. Explain **one** way in which pelleting pasture seeds with rock phosphate is important in pasture establishment.

____

____

(2 marks)

d. Explain any **one** way in which agricultural cooperatives are important in agricultural production.

____

____

(2 marks)

2. a. Name any **two** macro nutrients of crop plants responsible for protein formulation.

____

____

(2 marks)

b. A maize plant in a garden shows the following deficiency signs
   - scorching of the leaf edges
   - mottled chlorosis of leaves
   - leaf curling

i. Mention the nutrient that is lacking in the soil.

____

(1 mark)

Continued/...

2. b. (Cont'd)

ii. Give any two ways of controlling the deficiency symptoms of the maize plant.

____

____

(2 marks)

c. **Figure 1** is a diagram showing a cropping system. Use it to answer questions that follow.

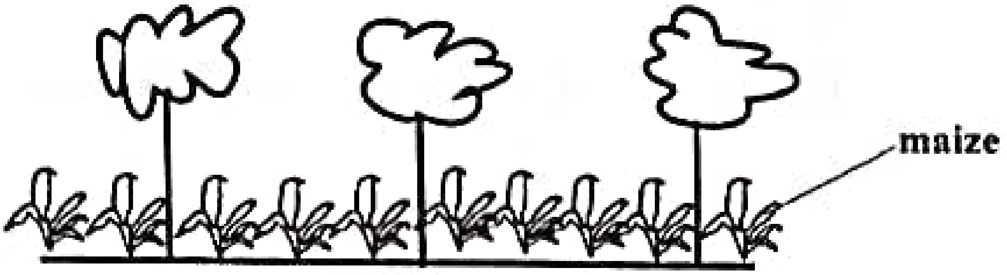

Figure 1

i. Identify the type of cropping system.

____

(1 mark)

ii. State any two advantages of the cropping system.

____

____

____

____

(2 marks)

d. Describe any two effects of population distribution on marketing of agricultural produce.

____

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____

____

(4 marks)

Continued/...

3. a. State any two economic principles in farm business decision making.

____

____

(2 marks)

b. **Table 1** shows a record that was kept by a farmer. Use it to answer question 3(b).

Table 1

Yield of maize (kg)	Variable costs (MK)	Fixed costs (MK)
2000	180 000	220 000

Calculate the break-even price of maize on the farm.

(3 marks)

c. Classify the following pasture grasses into **indigenous** and **exotic** groups; star grass, rapoko grass and elephant grass.

(3 marks)

(ii) State any one use of the budget in 2a (i).

____

(1 mark)

(iii) Explain any one way in which the cropping system would support crop production.

____

____

(2 marks)

b. State any one advantage of bio drainage.

____

____

(1 mark)

6. a. Describe any one characteristic to look for when choosing parents for cross-breeding beef cattle.

____

____

(2 marks)

b. (i) Name a disease which a cow is likely to develop when it is producing large quantities of milk.

____

(1 mark)

(ii) State any two ways of controlling the disease.

____

____

(2 marks)

7. a. State any two main areas of an experimental report.

____

____

(2 marks)

Continued/...

(ii) State any one use of the budget in 2a (i).

____

(1 mark)

(iii) Explain any one way in which the cropping system would support crop production.

____

____

(2 marks)

b. State any one advantage of bio drainage.

____

____

(1 mark)

6. a. Describe any one characteristic to look for when choosing parents for cross-breeding beef cattle.

____

____

(2 marks)

b. (i) Name a disease which a cow is likely to develop when it is producing large quantities of milk.

____

(1 mark)

(ii) State any two ways of controlling the disease.

____

____

(2 marks)

7. a. State any two main areas of an experimental report.

____

____

(2 marks)

Continued/...

10. (Cont'd)

iii. Outline any two factors that the farmer kept constant in the experiment.

____

____

____

(2 marks)

b. A farmer has the following equipments: wire mesh, slasher, knapsack sprayer and a dipping tank.

Describe any two ways the farmer would control external parasites using the available resources.

____

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____

____

(4 marks)

Continued/...

2. **b.** **(Cont'd)**

ii. Give any **two** ways of controlling the deficiency symptoms of the maize plant.

____

____

(2 marks)

c. **Figure 1** is a diagram showing a cropping system. Use it to answer questions that follow.

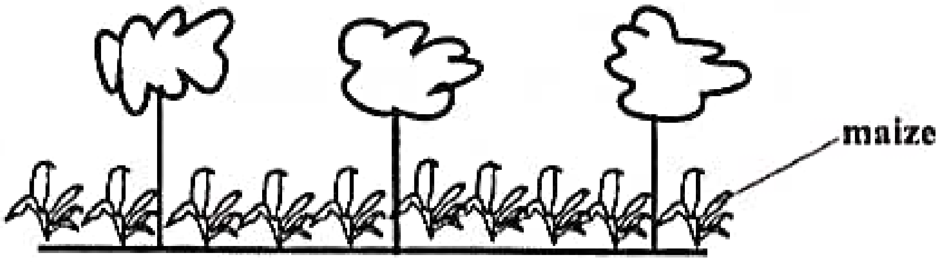

Figure 1

i. Identify the type of cropping system.

____

(1 mark)

ii. State any **two** advantages of the cropping system.

____

____

____

____

(2 marks)

d. Describe any **two** effects of population distribution on marketing of agricultural produce.

____

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(4 marks)

Continued/...

3. a. State any **two** economic principles in farm business decision making.

____

____

(2 marks)

b. **Table 1** shows a record that was kept by a farmer. Use it to answer question 3(b).

Table 1

Yield of maize (kg)	Variable costs (MK)	Fixed costs (MK)
2000	180 000	220 000

Calculate the break-even price of maize on the farm.

(3 marks)

c. Classify the following pasture grasses into **indigenous** and **exotic** groups; star grass, rapoko grass and elephant grass.

(3 marks)

Continued/...

4. **Figure 2** shows a diagram of a cow being milked. Use it to answer questions that follow.

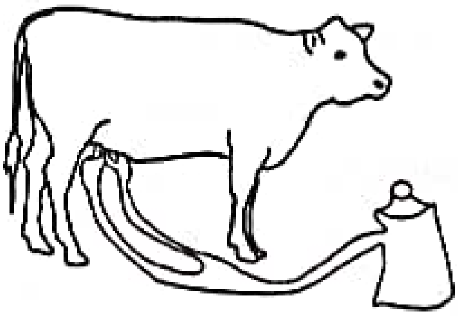

Figure 2

(i) State one advantage of using the machine to milk the cow.

____

(1 mark)

(ii) Explain any **two** factors a farmer should consider before acquiring the farm machinery.

____

____

____

____

(4 marks)

5. a. A farmer cultivates maize on the same piece of land yearly. He however would like to plant maize and beans on the same rows the following year. Use the information to answer questions a (i) to a (iii).

(i) Name the type of budget the farmer will prepare in the following year.

____

(1 mark)

Continued/...

(ii) State any **one** use of the budget in 2a (i).

____

(1 mark)

(iii) Explain any **one** way in which the cropping system would support crop production.

____

____

(2 marks)

b. State any **one** advantage of bio drainage.

____

____

(1 mark)

6. a. Describe any **one** characteristic to look for when choosing parents for cross-breeding beef cattle.

____

____

(2 marks)

b. (i) Name a disease which a cow is likely to develop when it is producing large quantities of milk.

____

(1 mark)

(ii) State any **two** ways of controlling the disease.

____

____

(2 marks)

7. a. State any **two** main areas of an experimental report.

____

____

(2 marks)

Continued/...

7. (Cont'd)

b. Explain any **two** ways in which agricultural marketing services are important.

____

____

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____

(4 marks)

8. a. Give any **two** types of farm structures.

____

____

(2 marks)

b. Describe the way of irrigating tomato plants using **drip irrigation** given the following materials:- a hammer, nails, water and tins.

____

____

____

____

(3 marks)

c. Give any **two** categories of marketing functions.

____

____

(2 marks)

9. **Figure 3** is a diagram of a farm equipment. Use it to answer questions 9a and b.

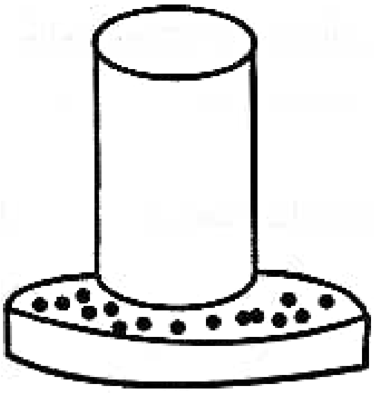

Figure 3

Continued/...

10. **(Cont'd)**

iii. Outline any two factors that the farmer kept constant in the experiment.

____

____

____

(2 marks)

b. A farmer has the following equipments: wire mesh, slasher, knapsack sprayer and a dipping tank.

Describe any two ways the farmer would control external parasites using the available resources.

____

____

____

____

(4 marks)

Continued/...

9. a. **(Cont'd)**

i. Explain any **one** reason for not using the equipment to feed chicks.

____

____

(2 marks)

ii. Explain **one** way in which the equipment should be taken care of to prevent transmission of disease.

____

____

(2 marks)

b. Explain any **one** way in which intensive management system would increase productivity of local breeds of chicken.

____

____

(2 marks)

10. a. **Table 2** shows results of an experiment on two animals of the same breed. Use it to answer questions 10 (i) to (iii).

Table 2

Animal	**Original weight at birth (kg)**	**Feed Type**	**Drug**	**New weight after 10 months (kg)**
A	4	X	BCG vaccine 10mls	7
B	4	Y	BCG vaccine 10mls	12

i. State the aim of the experiment.

____

(1 mark)

ii. Write the method used to collect the information presented in the table.

____

(1 mark)

Continued/...

Section B (30 marks)

Answer all the **three** questions in this section.

11. Explain any **five** advantages of artificial insemination in livestock production.

(10 marks)

Continued/...

12. Describe any five advantages of rotational grazing in pasture management.

(10 marks)

Continued/...

13. A farmer has the following resources:

- maize and groundnut seeds
- 0.5 hectares of land which is degraded
- cattle
- fish pond
- woodlot of faldebia abida

Explain any **five** ways the farmer would use the available resources to mitigate climate change.

(10 marks)

END OF QUESTION PAPER

This paper contains 12 printed pages.

Section B (30 marks)

Answer all the **three** questions in this section.

11. Explain any **five** advantages of artificial insemination in livestock production.

(10 marks)

Continued/...

EXAMINATION NUMBER____

ZINGWANGWA CLUSTER EXAMINATIONS

2020 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

AGRICULTURE

Subject Number: M012/1
Time Allowed: 2 hours
(7.30-09.30am)

PAPER I
(100 Marks)
(Theory)

Instructions:

1. This paper contains **14 pages**. Please check.
2. Answer all **ten** questions in **section A** and all **three** questions in **section B**.
3. The maximum number of marks for each answer is indicated against each question.
4. Answer all questions in the spaces provided.
5. Write your **name** and **class** on top of every page.
6. In the table provided on this page, tick against the question number you have answered.
7. Hand in your paper to the invigilator at the end.

Question Number	Tick if Answered	Do not write in these margins	
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Section A (70 marks)

Answer all the **ten** questions in this section

1. a. State any **two** bad farming practices that cause soil degradation.

(2 marks)

b. Explain any **two** effects of soil degradation on land resources.

(4 marks)

c. Describe **one** way how biological conservation measures help to control soil degradation.

(2 marks)

2. a. State **three** conditions a plant nutrient must satisfy to qualify as an essential plant nutrient.

(3 marks)

b. In what form is nitrogen absorbed by plants?

____

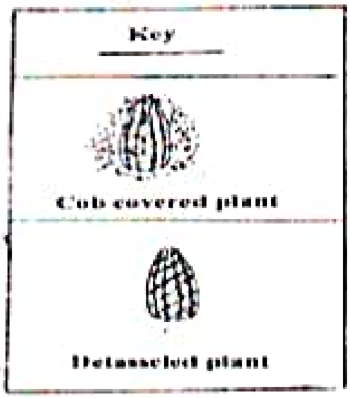
(1 mark)

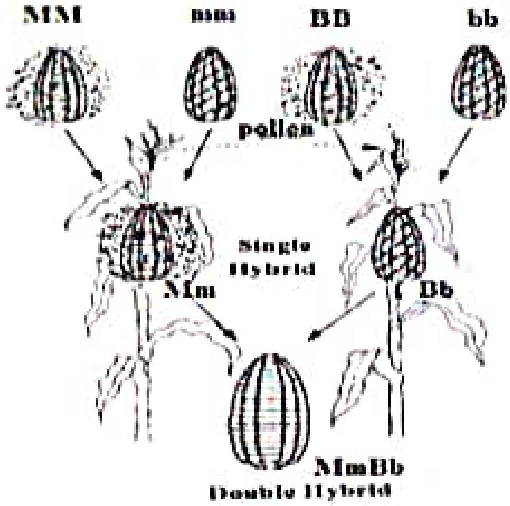
c. What mineral element lacks for a plant to show mottled interveinal chlorosis of young leaves?

____

(1 mark)

3. **Figure** below shows production of hybrid maize. Use the key to answer some of the questions.


Key
Cob covered plant
Detasseled plant


MM
mm
BB
bb
pollen
Single Hybrid
Mm
Bb
MmBb
Double Hybrid

a. What do arrows in the diagram indicate?

____

(1 mark)

b. Explain why **one** plant was de-tasseled and **one** had its cob covered in each set?

____

____

(2 marks)

c. Name any **one** Centre in Malawi where such experiments are done.

____

(1 mark)

d. Give **one** example of a double crossed hybrid maize variety in Malawi.

____

(1 mark)

4. a. Explain any **one** main difference between risks and uncertainties.

____

____

____

____

(2 marks)

b. Classify the following into risks and uncertainties: price fluctuations, weather changes, fire and theft.

Risks	**Uncertainties**
____________________	____________________
____________________	____________________
____________________	____________________
____________________	____________________

(4 marks)

c. State any **two** ways in which farmers can adjust to risks and uncertainties.

____

____

____

____

(2 marks)

5. a. Calculate the purity percentage for Rhodes grass given the following information:

- Seed size =200, 000 seeds/kg

- Germination % =40%
- Expected plant population =800, 000 plants
- Seed rate =10.5kg/ha

(3 marks)

. Discuss **three** methods of treating pasture seeds.

(6 marks)

6. A farmer observed the following signs of a disease in his herd of animals:

- Abortion
- Yellowish brown discharge from vulva

Use this information to answer the questions that follow.

a. Name the disease.

(1 mark)

b. State any **two** farm animals that can be attacked by this disease.

(2 marks)

c. State any **two** ways of preventing the disease.

(2 marks)

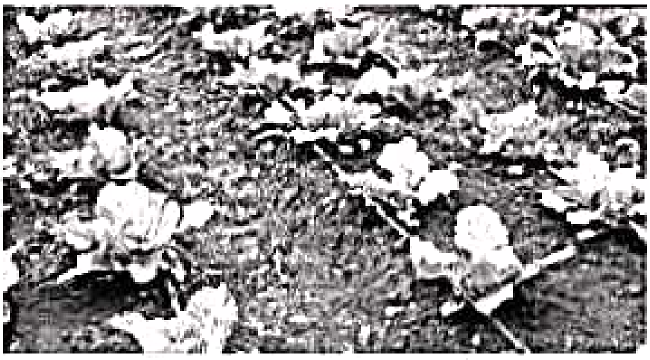
7. a. A farmer has poultry and vegetable enterprises on the same farm. Identify the type of enterprise being practiced.

(1 marks)

b. Explain any **two** ways how the two enterprises can reduce cost of production.

(4 marks)

8. Figure below is showing an irrigation system. Use it to answer the question below.



a. Identify the irrigation system

(1 mark)

b State any **two** factors to consider when establishing an irrigation system.

(2 marks)

c. **Table 1** below shows yields of an experiment on maize. Use it to answer questions that follow:

Planting time	**November**	**December**	**January**	**February**
Block 1 yield (kg)	87	49	40	19
Block 2 yield (kg)	91	63	19	19

i. **Calculate range in Block 1.**

(1 mark)

ii. State the **aim** of the experiment.

____

(1 mark)

iii. What factor was varied in the experiment?

____

(1 mark)

iv. What conclusion can be drawn from the results of this experiment?

____

____

(1 mark)

v. State **two** methods used for data collection when conducting an agricultural experiment.

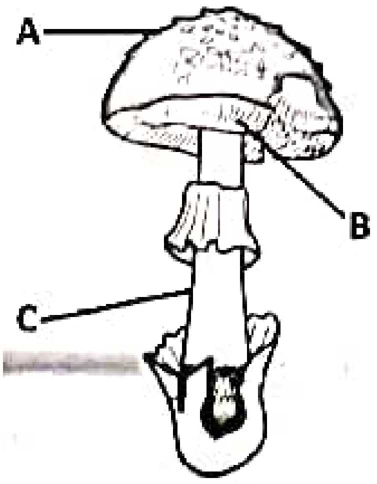
____

____

(2 marks)

9. a. Define the term Cooperative.

____



a. Identify part labeled A. ______________________________

B. ______________________________

C. ______________________________

(3marks)

b. Give **two** types of mushroom mostly cultivated in Malawi.

____

(2 marks)

c. Explain **one** way of processing mushroom in order to increase shelf life.

____

(2 marks)

Section B (30 marks)

Answer all the **three** questions in an essay form except for question 11.

12. Explain any **five** scientific technologies that can ensure food security.

____

____

____

____

(10 Marks)

3. With a well labeled diagram describe how layering is done as a means of propagating plants.

(10 marks

END OF QUESTION PAPER

NB: this paper contains 13 pages

EXAMINATION NO.:________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2020 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

BIOLOGY

Subject Number: M022/I

Thursday, 21st January 2021

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

(100 marks)

Instructions:

1. **This paper contains 11 printed pages. Please check.**
2. Before you begin, **fill** in your **Examination Number** at the top of the question paper and on all other sheets.
3. This paper has **two** sections, A and B. Section A has **ten** questions and Section B has **three** questions.
4. Answer **all** the **13** questions in the spaces provided. The maximum number of marks for each answer is indicated against each question.
5. In the table provided on this page, **tick** against the question number you have answered.
6. At the end of the examination, hand in your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

1. **Figure 1** is a diagram of a mammalian sperm. Use it to answer the questions that follow.

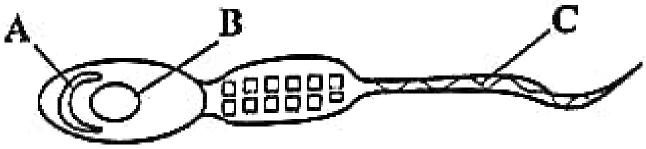

Figure 1

a. Name the part labelled **B.**

____

(1 mark)

b. State the function of the part labelled **C.**

____

(1 mark)

c. Explain what happens to part labelled A during fertilisation.

____

____

(2 marks)

d. Explain any two adaptations of the sperm for movement.

____

____

____

____

(4 marks)

2. a. State any two functions of blood plasma.

____

____

(2 marks)

Continued/...

nued)

Mention any two characteristics of blood capillaries.

____

____ (2 marks)

Mention the blood vessel that supplies blood to the heart.

____ (1 mark)

Explain any two adaptations of red blood cells to its function.

____

____

____

____ (4 marks)

Define blood transfusion.

____

______________________________________ (1 mark)

State any two types of blood donors.

____

______________________________________ (2 marks)

State any three factors to be considered before organ transplant.

i) ____

ii) ____

iii) ____

4. a. State any two properties of enzymes.

(i) ____

(ii) ____

(2 marks)

b. Explain any **three** adaptations of small intestine for food absorption.

(i) ____

____

(ii) ____

____

(iii) ____

____

(6 marks)

d. Mention any **one** function of the large intestines.

____

(1 mark)

5. **Figure 2** is a diagram showing a type of a bone injury. Use it to answer questions that follow.

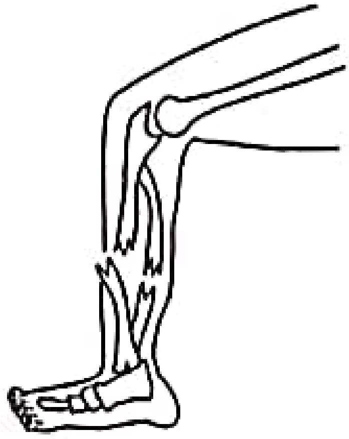

Figure 2

a. State the type of bone injury illustrated in the Figure.

____ (1 mark)

Continued/...

5. (Continued)

b. Describe first aid that can be given to a person with the fracture shown in 5 (a).

____

____

____

____

____

____

(6 marks)

6. Figure 3 is a diagram of a structure in the human digestive system. Use it to answer the questions that follow.

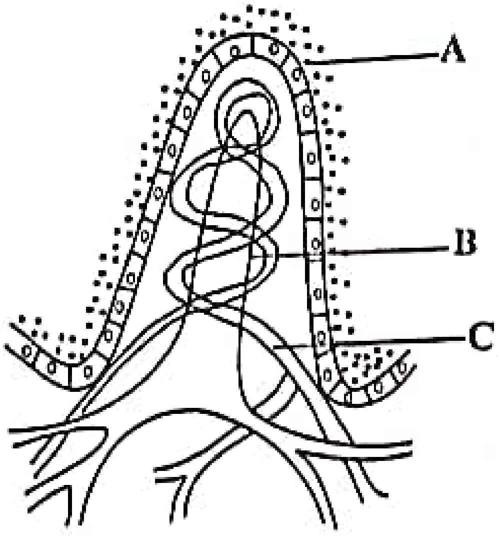

Figure 3

a. (i) Name the structure.

______________________________ (1 mark)

(ii) Mention parts labelled A and C.

A: ______________________________

C: ______________________________ (2 marks)

Continued/...

6. a. (Continued)

(iii) State the function of the part labelled **B.**

____

(1 mark)

b. State the end product of protein digestion.

____ **(1 mark)**

7. Explain any **three** factors that increase the risk of cancer.

____

____

____

____

____

____

(6 marks)

8. **Figure 4** is a diagram showing a synaptic junction. Use it to answer the the questions that follow.

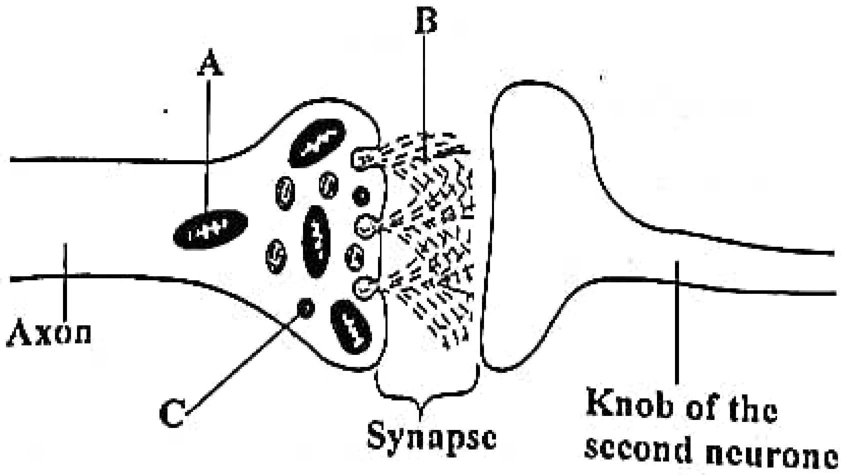
B
A
Axon
C
Synapse
Knob of the
second neurone

Figure 4

Continued/...

8. (Continued)

a. (i) Name the parts labelled B and C.

B: ________________________________

C: ________________________________ **(2 marks)**

(ii) Explain the importance of having part A at the synaptic knob.

____

____

(2 marks)

b. Which chemical influences movement of vesicles at the synaptic knob?

____

(1 mark)

9. a. State any **three** functions of the circulatory system.

(i) ____

(ii) ____

(iii) ____

(3 marks)

b. Name the muscles that make up the heart.

____

(1 mark)

c. To which group of muscles do the muscles that make up the heart belong?

____

(1 mark)

Continued/...

9. **(Continued)**

d. Give two characteristics of the muscles that make up the heart.

(i) ______________________________ **(1 mark)**

(ii) ______________________________ **(1 mark)**

10. Explain any **four** adaptations of camels to their habitat.

(8 marks)

Continued/...

Section B (30 marks)

Answer **all** the **three** questions in this section. Your answers should be in an essay form.

11. Describe breathing mechanism in human beings.

(10 marks)

Continued/...

12. Explain any **five** ways of preventing roundworm infection.

(10 marks)

Continued/...

13. Explain any five causes of variations amongst living organisms.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 11 printed pages.

EXAMINATION NO.:__________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2020 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

CHEMISTRY

Subject Number: M038/I

Friday, 22nd January 2021

Time Allowed: (2 hours)
2:00 – 4:00 pm

PAPER I

THEORY

(100 marks)

Instructions

1. This paper contains 12 printed pages. Please check.
2. Fill in your **Examination Number** at the top of each page.
3. This paper contains **two sections, A** and **B**. In **Section A** there are ten short answer questions while in **Section B** there are three restricted essay questions.
4. Answer all the **thirteen** questions in the spaces provided.
5. Use of electronic calculators is allowed.
6. The maximum number of marks for each answer is indicated against each question.
7. In the table provided on this page, **tick** against the number of the question you have answered.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in this section.

1. a. **Figure 1** is a hazard symbol that is put on a bottle containing a chemical in a laboratory.

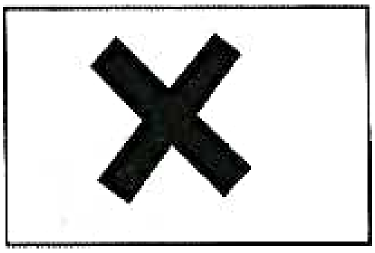

Figure 1.

(i) What is the meaning of the symbol?

______________________________ **(1 mark)**

(ii) Give any **two** ways of handling a substance that has this symbol.

____

____

(2 marks)

b. State any **two** ways of disposing flammable wastes.

____

____

(2 marks)

2. a. Give any **three** properties of sulphur.

____

____

____

(3 marks)

b. Define the term "allotropy".

____

____

(1 mark)

Continued/…

2. **(Continued)**

c. **Figure 2** shows the structure of allotropes of sulphur molecules.

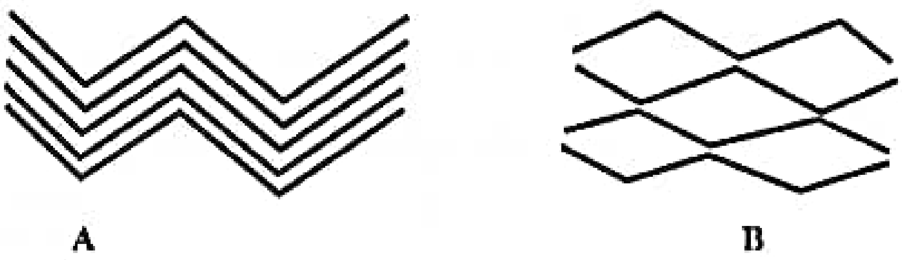

Figure 2.

(i) What name is given to structure labeled A?

____

(1mark)

(ii) Which structure is likely to be stable at room temperature?

____

(1 mark)

(iii) Give a reason for the answer in 2c (ii).

____

(1 mark)

3. a. Give any two uses of nitrogen.

____

____

____

(2 marks)

b. Mention the two uses of bronze.

____

____

(2 marks)

c. Explain how melting point is used to determine the purity of a substance.

____

____

____

(2 marks)

Continued/…

4. a. Define the term "mixture".

____

____

(1 mark)

b. Explain how a catalyst affects the rate of reaction.

____

____

____

____

(3 marks)

c. The reaction between ammonia and ethanoic acid is represented by the following equation:

$$NH_3\,(aq) + CH_3COOH\,(aq) \rightleftharpoons NH_4^+\,(aq) + CH_3COO^-\,(aq)$$

Give any **one** conjugate acid-base pair in the equation.

____

(2 marks)

5. a. State the **two** advantages of thermoplastics over thermosetting plastics.

____

____

(2 marks)

4. a. Define the term "mixture".

(1 mark)

b. Explain how a catalyst affects the rate of reaction.

(3 marks)

c. The reaction between ammonia and ethanoic acid is represented by the following equation:

$$NH_3\,(aq) + CH_3COOH\,(aq) \rightleftharpoons NH_4^+\,(aq) + CH_3COO^-\,(aq)$$

Give any **one** conjugate acid-base pair in the equation.

(2 marks)

5. a. State the **two** advantages of thermoplastics over thermosetting plastics.

(2 marks)

Continued/...

5. **(Continued)**

b. Zinc metal (Zn) reacts with dilute hydrochloric acid (HCl) according to the following equation:

$$Z_n (s) + 2HCl (aq) \longrightarrow Z_nCl_2 (aq) + H_2 (g)$$

Calculate the volume of hydrogen gas produced when 182.5g of hydrochloric acid is used in the reaction at standard temperature and pressure. (RAM: Zn = 65, H = 1 and Cl = 35.5; molar gas volume at STP is 22.4dm³).

(5 marks)

6. a. Give any **two** pollutants of water.

(2 marks)

b. Why should wastes be treated before disposal? Give any two reasons.

(2 marks)

Continued/...

6. (Continued)

c. Give any **two** human health problems that would be caused by ozone layer depletion.

______

______ **(2 marks)**

7. a. **Figure 3** is a diagram showing a waste treatment technology.

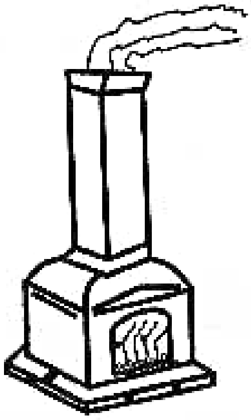

Figure 3.

(i) Identify the treatment technology.

______ **(1 mark**

(ii) Give any **two** disadvantages of using this technology.

______

______ **(2 marks**

b. Copper (II) oxide reacts with ammonia gas to produce copper metal, wate and nitrogen gas. Write a balanced chemical equation for the reaction.

(3 mark

Continued

8. a. Explain how precipitation method can be used to remove permanent water hardness.

____

____

____

____

____

____

____

(4 marks)

b. **Table 1** shows the melting and boiling points of some organic compounds.

Table 1

Compound	**Melting point (°C)**	**Boiling point (°C)**
CH_3COOH	17	118
CH_3CH_3	- 183	- 88
CH_3CH_2OH	- 117	78
CH_3CHO	- 124	2

(i) Which compounds are liquids at room temperature?

____

____

(2 marks)

(ii) Explain why CH_3CH_3 has the lowest melting point.

____

____

____

____

(3 marks)

9. a. Define the term "polymerization".

____

____

(1 mark)

Continued/...

9. **(Continued)**

b. Explain any **one** property of nylon that makes it suitable for cloth making.

____

____

(2 marks)

c. Complete the following equation by writing the polymer formed.

$NH_2(CH_2)_6NH_2 + COCl(CH_2)_4COCl \longrightarrow$ ____________________ $+ HCl$

(1 mark)

d. Explain how temperature affects the rate of reaction.

____

____

____

____

(3 marks)

10. a. **Figure 4** shows general formulae of some organic compounds.

$C_nH_{2n}O$	C_nH_{2n}	$C_nH_{2n+1}OH$	C_nH_{2n+2}
A	**B**	**C**	**D**

Figure 4.

(i) Draw the structure of a compound represented by formula **A** with 4 carbon atoms.

(2 marks)

Continued/...

9. **(Continued)**

b. Explain any **one** property of nylon that makes it suitable for cloth making.

____

____

(2 marks)

c. Complete the following equation by writing the polymer formed.

$NH_2(CH_2)_6NH_2 + COCl(CH_2)_4COCl \longrightarrow$ ____________________ + HCl

(1 mark)

d. Explain how temperature affects the rate of reaction.

____

____

____

____

(3 marks)

10. a. **Figure 4** shows general formulae of some organic compounds.

$C_nH_{2n}O$	C_nH_{2n}	$C_nH_{2n+1}OH$	C_nH_{2n+2}
A	**B**	**C**	**D**

Figure 4.

(i) Draw the structure of a compound represented by formula A with 4 carbon atoms.

(2 marks)

Continued/...

10. (Continued)

(ii) Explain how a compound of homologous series **B** can be distinguished from a compound of homologous series **D**.

____
____
____
____
____
____
____
____

(4 marks)

b. A hydrocarbon contains carbon and hydrogen in the ratio 3:7. Work out its molecular formula if the relative molecular mass is 86. (RAM: C = 12, H = 1).

(5 marks)

Continued/…

SECTION B (30 MARKS)

Answer **all** the questions in this section

11. a. Describe how the presence of sulphur dioxide can be tested using filter paper and potassium dichromate.

(4 marks)

b. Explain how ethanoic acid (CH_3COOH) can be produced from ethanol (CH_3CH_2OH).

(6 marks)

Continued/...

9. **(Continued)**

b. Explain any **one** property of nylon that makes it suitable for cloth making.

____

____

(2 marks)

c. Complete the following equation by writing the polymer formed.

$NH_2(CH_2)_6NH_2 + COCl(CH_2)_4COCl \longrightarrow$ ______________________ $+ HCl$

(1 mark)

d. Explain how temperature affects the rate of reaction.

____

____

____

____

(3 marks)

10. a. **Figure 4** shows general formulae of some organic compounds.

$C_nH_{2n}O$	C_nH_{2n}	$C_nH_{2n+1}OH$	C_nH_{2n+2}
A	**B**	**C**	**D**

Figure 4.

(i) Draw the structure of a compound represented by formula **A** with 4 carbon atoms.

(2 marks)

Continued/...

SECTION B (30 MARKS)

Answer **all** the questions in this section

11. a. Describe how the presence of sulphur dioxide can be tested using filter paper and potassium dichromate.

____

____

____

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(4 marks)

b. Explain how ethanoic acid (CH_3COOH) can be produced from ethanol (CH_3CH_2OH).

____

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____

____

____

____

(6 marks)

Continued/…

13. Describe an experiment that can be conducted to determine the strength of three acids in containers labeled A, B and C using conductivity test.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages

12. Describe how 250cm^3 of a 0.2M sodium carbonate (Na_2CO_3) solution can be prepared from a 0.8M sodium carbonate stock solution.

(10 marks)

Continued/...

SECTION B (30 MARKS)

Answer **all** the questions in this section

11. a. Describe how the presence of sulphur dioxide can be tested using filter paper and potassium dichromate.

____
____
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____

(4 marks)

b. Explain how ethanoic acid (CH_3COOH) can be produced from ethanol (CH_3CH_2OH).

____
____
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____
____
____
____

(6 marks)

Continued/…

10. (Continued)

(ii) Explain how a compound of homologous series **B** can be distinguished from a compound of homologous series **D**.

____

____

____

____

____

____

____

____

(4 marks)

b. A hydrocarbon contains carbon and hydrogen in the ratio 3:7. Work out its molecular formula if the relative molecular mass is 86. (RAM: C = 12, H = 1).

(5 marks)

Continued/…

EXAMINATION NO.: ______________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/I

Wednesday, 26 June

Time Allowed: 2 hours
2:00 – 4:00 pm

PAPER I

(100 marks)

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. Answer all the 20 questions in this paper.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided on the question paper.
5. Scientific calculators may be used.
6. The graph paper and the blank answer sheet at the end of the question paper can be used if required. Do not tear them off.
7. **All working must be clearly shown.**
8. Write your **Examination Number** at the top of each page of your question paper in the spaces provided.
9. In the table provided on this page, **tick** against the question number you have answered.

Question Number	Tick if answered	Do not write in these columns	
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1. Factorise completely $5x^2 - 13x - 6$. **(3 marks)**

2. Simplify $1321_4 - 11100_2$, giving your answer to base 10. **(4 marks)**

Continued/…

3. Given that $h(x) = 3x^2$ and $h(a+1) = 3$, calculate the value of a. **(6 marks)**

4. Make w the subject of the formula $s = \dfrac{f}{m - w^2 p}$. **(6 marks)**

Continued/…

5. The table below shows rates of income tax for a certain country.

Income per Month	First K30 000	Next K15 000	Excess of K45 000
Rate of Tax	0%	10%	30%

If an employee pays an income tax of K31 500, calculate the employee's gross income per month. **(6 marks)**

6. Without using a calculator, simplify $\frac{\sqrt{x} - \sqrt{2}}{\sqrt{x} + \sqrt{2}}$, giving the answer with a rational denominator.

(5 marks)

Continued/...

7. The sum of interior angles of a regular convex polygon is 1440°. Calculate the size of each exterior angle of the polygon. **(4 marks)**

8. A chord MN of a circle is 3.6 cm from the centre O of the circle. If the radius of the circle is 6 cm long, calculate the length of the chord MN.

(5 marks)

Continued/...

11. A company mixed 25 litres of white paint with 15 litres of black paint to make grey paint. If white paint costs K1 450 per litre and black paint costs K1 430 per litre, calculate the cost of the grey paint per litre. **(5 marks)**

12. Solve the equation $10 - 6x - 2x^2 = 0$, giving your answer correct to one decimal place. **(6 marks)**

Continued/...

9. The angle between line **AB** and x-axis is 45°. Given that the coordinates of A and **B** are (2, 0) and (x, 4) respectively, calculate the value of x. **(4 marks)**

10. **Figure 1** shows the image **P'Q'R'** of triangle **PQR** after translation.

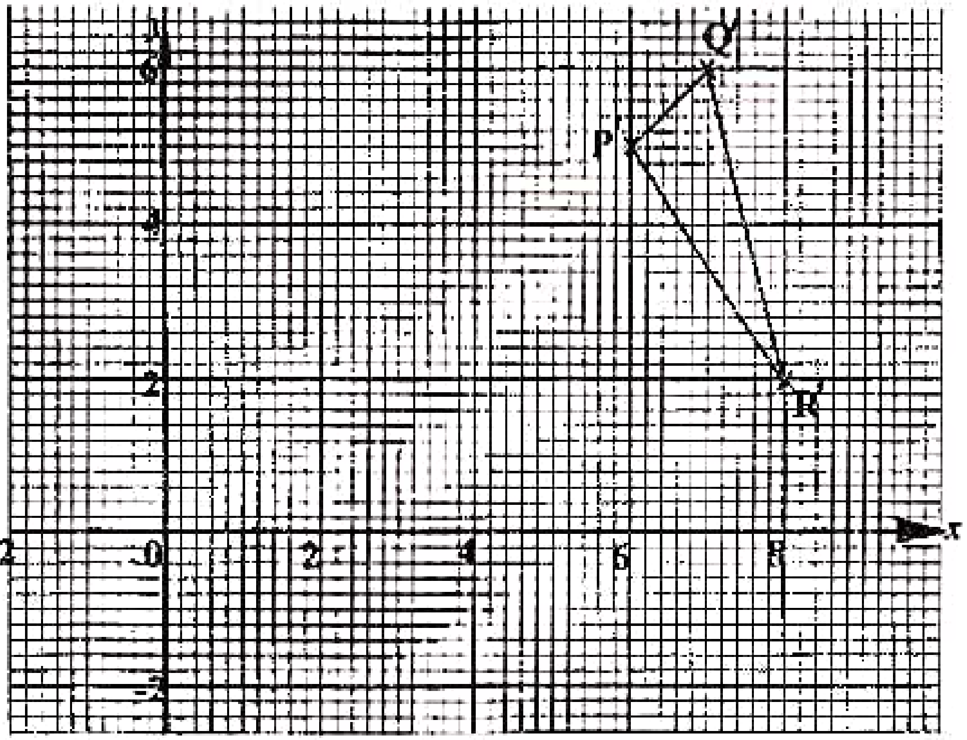

Figure 1

If the translation vector was $\begin{pmatrix}3\\2\end{pmatrix}$, in the same **figure 1, draw** triangle **PQR**.

(4 marks)

Continued/...

7. The sum of interior angles of a regular convex polygon is 1440°. Calculate the size of each exterior angle of the polygon. **(4 marks)**

8. A chord **MN** of a circle is 3.6 cm from the centre **O** of the circle. If the radius of the circle is 6 cm long, calculate the length of the chord **MN**. **(5 marks)**

Continued/…

5. The table below shows rates of income tax for a certain country.

Income per Month	First K30 000	Next K15 000	Excess of K45 000
Rate of Tax	0%	10%	30%

If an employee pays an income tax of K31 500, calculate the employee's gross income per month.
(6 marks)

6. Without using a calculator, simplify $\frac{\sqrt{x} - \sqrt{2}}{\sqrt{x} + \sqrt{2}}$, giving the answer with a rational denominator.

(5 marks)

Continued/...

3. Given that $h(x) = 3x^2$ and $h(a+1) = 3$, calculate the value of a. **(6 marks)**

4. Make w the subject of the formula $s = \dfrac{f}{m - w^2p}$. **(6 marks)**

Continued/...

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

MATHEMATICS

Subject Number: M131/II

Wednesday, 28 June

Time Allowed: 2 h 30 mins
8:00 – 10:30 am

PAPER II

(100 marks)

Instructions

1. This paper contains 18 printed pages. Please check.
2. Answer all the six questions in Section A and any four questions from Section B.
3. The maximum number of marks for each answer is indicated against each question.
4. Write your answers in the spaces provided on the question paper.
5. Scientific calculators may be used.
6. The graph paper and the blank answer sheet at the end of the question paper can be used if required.
7. All working must be clearly shown.
8. Write your Examination Number at the top of each page of your question paper in the spaces provided.
9. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick if answered	Do not write in these columns		Examiner's Initials
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

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Section A (60 marks)

Answer all the six questions in this section.

1. a. Simplify $\frac{3x}{3x+y} \div \frac{9y^2}{3xy+y^2}$. (4 marks)

b. Given that $\underline{a} = \begin{pmatrix} 3 \\ -2 \end{pmatrix}$ and $\underline{b} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$, find $2\underline{a} + 3\underline{b}$. (4 marks)

Continued/…

2. a. Given that $\log_3 \frac{3}{a} = -2$, find the value of *a*. **(4 marks)**

b. **Figure 1** is a sketch of velocity-time graph of a moving object.

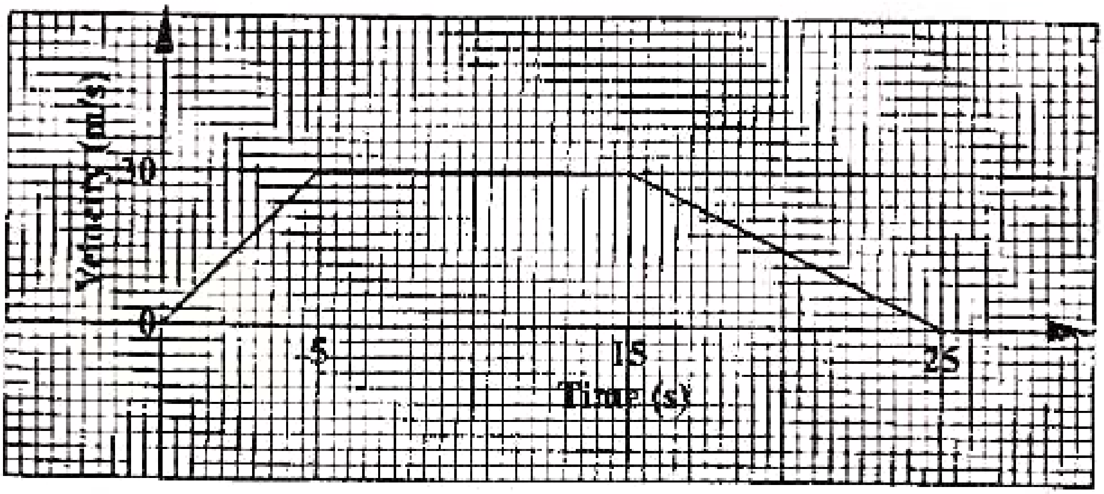


Figure 1

Calculate the average speed for the whole movement of the object.

(4 marks)

10. The following were the results of a mathematics test obtained by form 4 students at a certain secondary school.

3 17 8 11 26 23 18 28 33 38
12 38 22 50 5 35 39 30 31 43
27 34 9 25 39 14 27 16 33 49

a. Using a class interval of marks: 1-10, 11-20, 21-30, …, construct a frequency distribution table for the marks.

b. Using the frequency distribution table, draw a frequency polygon on the graph paper on **page 16.**

(10 marks)

Continued/…

10. Continued

Continued/…

11. The 3rd term of an Arithmetic Progression (AP) is half the 6th term. If the sum of the first 20 terms is 420, find the 15th term of the AP. **(10 marks)**

Continued/…

Section A (60 marks)

Answer **all** the **six** questions in this section.

1. a. Simplify $\frac{3x}{3x+y} \div \frac{9y^2}{3xy+y^2}$. **(4 marks)**

b. Given that $\underset{\sim}{a} = \begin{pmatrix} 3 \\ -2 \end{pmatrix}$ and $\underset{\sim}{b} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$, find $2\underset{\sim}{a} + 3\underset{\sim}{b}$. **(4 marks)**

Continued/...

(2.) a. Given that $\log_3 \frac{3}{a} = -2$, find the value of a. **(4 marks)**

b. **Figure 1** is a sketch of velocity-time graph of a moving object.

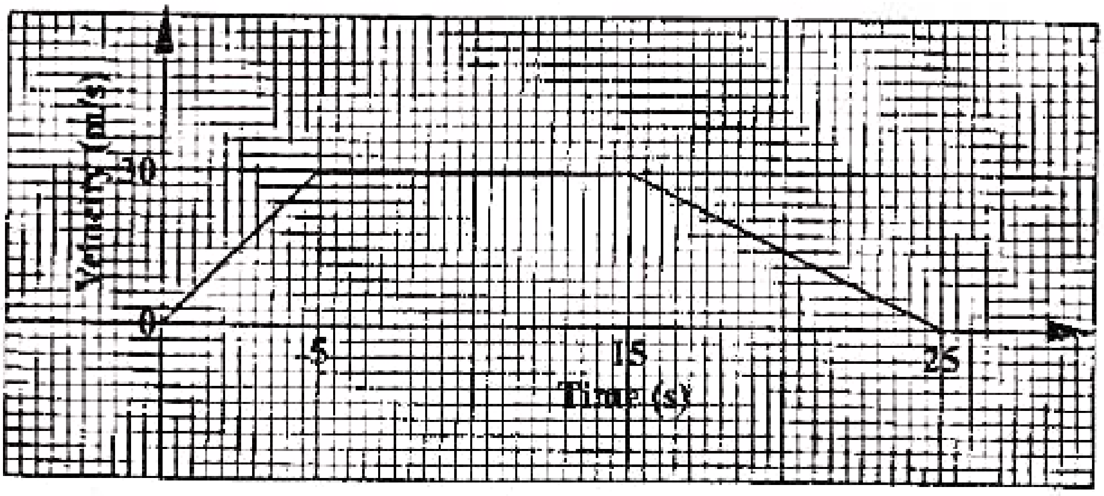


Figure 1

Calculate the average speed for the whole movement of the object.

(4 marks)

3. a. Solve the following equations simultaneously:

$$6r - 9 = t$$
$$r^2 = t$$

(5 marks)

b. A container of height 6 cm has a volume of 16 cm^3. Calculate the height, h of a similar container whose volume is 54 cm^3. **(4 marks)**

4. a. Prove that angles subtended by the same chord or arc are equal.

(6 marks)

Continued/...

4. (Continued)

b. **Figure 2** is a circle **ADTE** with centre **O** in which **CTB** is a tangent at **T** and **AT** is a diameter. **AC** and **AB** cut the circle at **E** and **D** respectively.

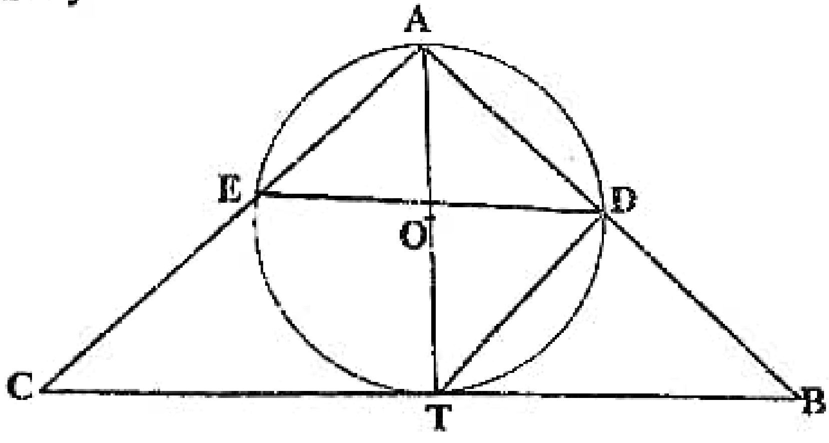


Figure 2

Show that **CEDB** is cyclic quadrilateral. **(7 marks)**

5. a. Using a ruler and a pair of compasses only, construct in the same diagram:

- a circle centre **O** with radius 2.5 cm.
- a point **T** outside the circle and 7 cm from the centre.
- tangents **TP** and **TQ** at **P** and **Q** respectively.

(6 marks)

Continued/...

5. (Continued)

b. **Figure 3** is a triangle **PQR** in which **PR** = 15 cm and angle **QPR**= 60°.

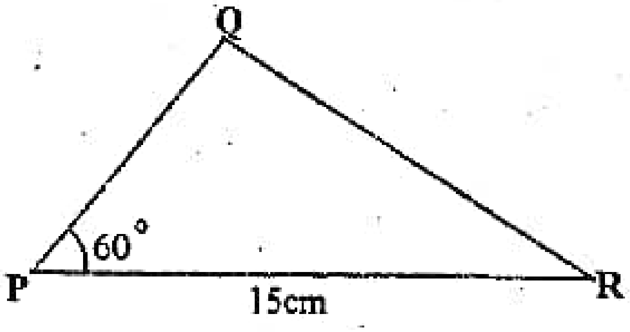


Figure 3

If the area of the triangle is $5\sqrt{6}$, without using a calculator, calculate the length of **PQ**. **(5 marks)**

6. a. **Figure 4** is a tree diagram showing probabilities of raining and flooding.

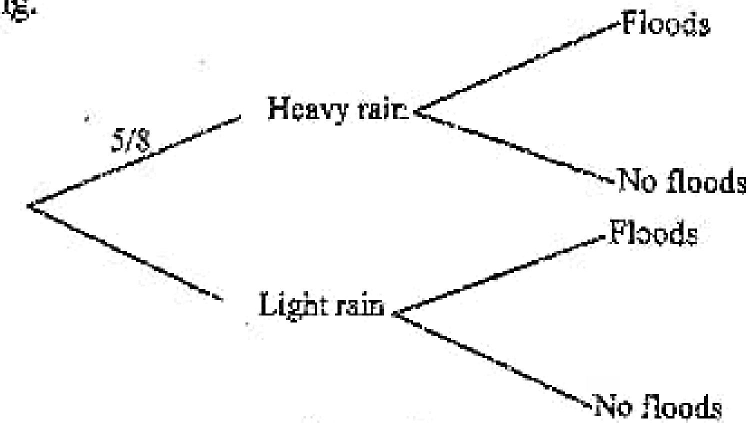

Floods
Heavy rain
5/8
No floods
Floods
Light rain
No floods

Figure 4

Given that the probability of raining heavily is $\frac{5}{8}$, the probability of flooding when it rains heavily is $\frac{6}{7}$ and the probability of flooding when it rains lightly is $\frac{1}{5}$:

(i) complete the probability tree diagram in **Figure 4.**

(ii) use the probability tree diagram to calculate the probability of flooding.

(7 marks)

6. **(Continued).**

b. **Figure 5 is a wedge such that ABCD, DCFE and ABFE are rectangles.**

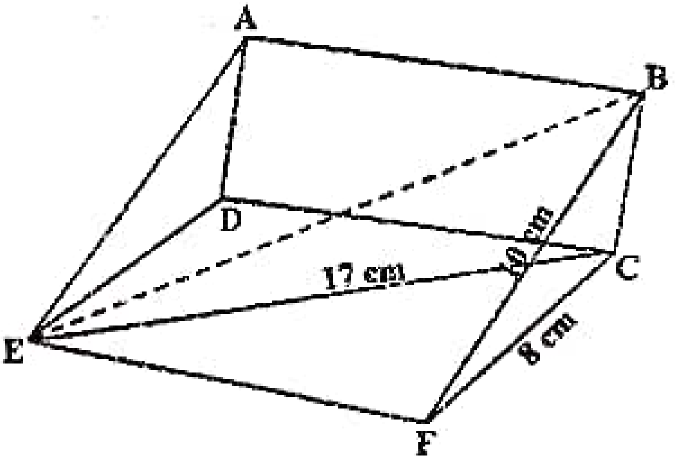


Figure 5

If **CE** = 17cm, **CF** = 8 cm and **BF** = 10 cm, calculate the length of **BE**, giving the answer correct to 2 decimal places.

(4 marks)

Section B (40 marks)

Answer any **four** questions from this section

7. Solve the equations $2m^3 - 5m^2 - 4m + 3 = 0$. **(10 marks)**

8. **Figure 6** shows a graph of $y = ax^2 + bx + c$ where a, b and c are constants.

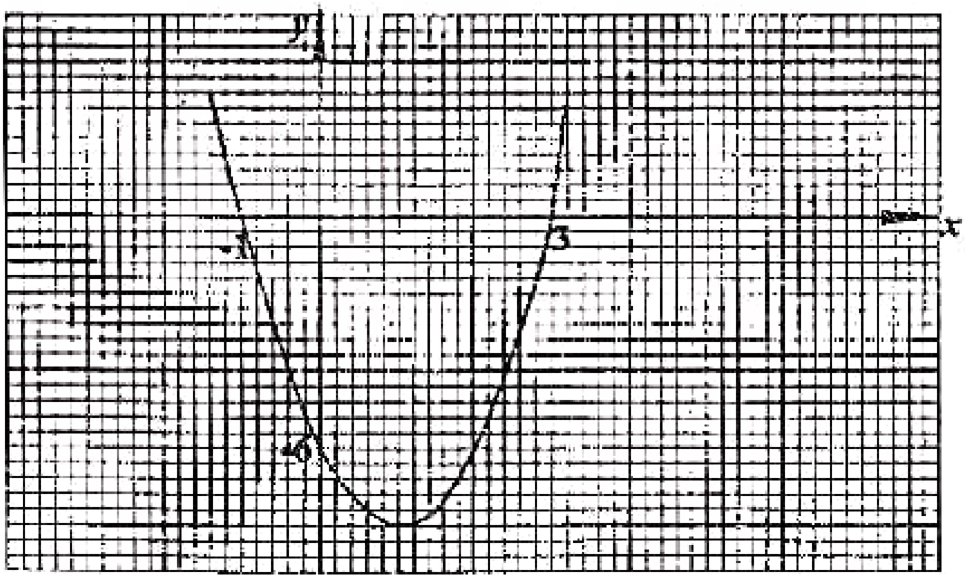


Figure 6

Find the equation of the:

a curve,

b line of symmetry.

(10 marks)

Continued/...

9. A farmer wants to buy mango and guava seedlings. A mango seedling costs K600 and a guava seedling costs K300. He has K90 000 to spend for the seedlings. He wants to buy up to 200 seedlings and at least 50 of each type of the seedlings.

a. If x represents the number of mango seedlings and y represents the number of guava seedlings, write down the **three** inequalities that satisfy the given information in addition to $x + y \leq 200$.

b. Using a scale of 2 cm to represent 50 units on both axes, draw graphs on **page14** to show the region bounded by the **four** inequalities, shade the unwanted region.

c. Using the graphs, find the number of each type of seedlings that the farmer should buy to have a maximum number of seedlings at a lower cost.

(10 marks)

Continued/...

NAME____________________________________EXAMINATION NO___________

ZOMBA CATHOLIC SECONDARY SCHOOL

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION

MOCK EXAMINATION

MATHMATICS PAPER II

(100 marks)

Date: 9th April, 2019 Subject Number: **M022/II**

Time allowed: **1 hr. Min**

Instructions

1. This paper contains **6 pages**, please check.
2. Write your, **NAME, ACC. NO** and **CLASS** on top.
3. Answer all the fifteen questions.
4. Write your answers in the spaces provided for each questions.
5. Marks for each question are indicated at the end of each question.
6. Write your examination number at the top of this page and of every sheet.
7. In the table provided on this page tick against the question number you have answered.
8. You should hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			

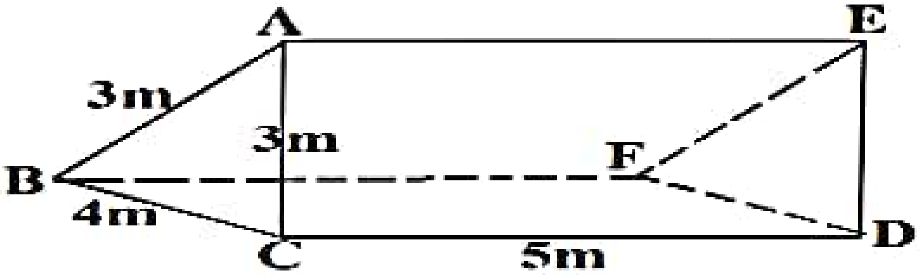
Use a Venn diagram, calculate the number of students who are rude in this class

11. By using a ruler and a pair of compasses only, construct in the same diagram:

(i) Tringle ABC such that AC=10cm, BC=5 cm and ∠ ACB=60°
(ii) Circum circle the triangle ABC
(iii) A tangent to the circle at A
(iv) Measure and state the a cute angle the tangent makes with BA

(10 marks)

END OF QUESTION PAPER



Calculate the:

(i) Length BE

(ii) Angle between line ED and plane BCDF giving your answer correct to the nearest degree

(10 marks)

10. There are Co students at ZCSS open who completed their fees payments. those students fall into at least one of the categories based on their behaviour
God fearing (B) Poorly (C) and rudeness (A)
Given that

12 students ac rude only
7 students are god fearing only
11 students are poor only
6 students have all behaviour
$n(B \cap C \cap A') = x$
$n(A \cap C \cap B') = 2x$
$n(A \cap B \cap C') = 3x$

(10 marks)

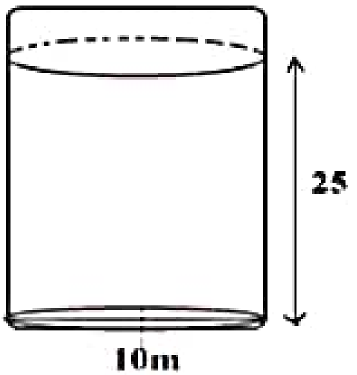
8. Naomi has K24, 000 given by her Aunt Lexa to buy skirts and blouses. Skirts cost K2, 400 while blouse cost K1, 200 each in Pep shops. She wants spend at least K4, 800 more on skirts than blouses. she would like to buy at least 4 skirts and 2 blouses
   (i) If x represents the number of skirts and y represents the number of blouses, write down four inequalities in x and y

   (ii) Using a scale of 2cm to represent 2 units on both axes, draw the graphs to show the region which represents the four inequalities

   (iii) Using your graph, find the maximum number of skirts and blouses that Naomi can buy

(10 marks)

9. Figure shows a prism AQBCDEF, 5m with a triangle cross-section. AB=AC=3 M and BC=4cm



Calculate the total surface
Area of the flask. Take π=3.14 and sphere S=4

(5 marks)

SECTION B (40 MARKS)

7. Table below shows some values of x and y for the equation $y = x^3 - 2x^2 - 5x + 6$ for the value of x from -3 to 4

x	-3	-2	-1	0	1	2	3	4
y	-24		8	6		-4	0	18

(i) Complete the table
(ii) Using a scale of 2cm to represent 1 unit on the x-axis and 2cm to represent 5 units on the y-axis, draw the graph $y = x^3 - 2x^2 - 5x + 6$
(iii) Use your graph to solve the equation
$x^3 - 2x^2 - 2x = 0$

(5 marks)

(b) The mean data is 57 its sum is 456 if the sum of the squares of deviation of the data is 292. Calculate the standard deviation of the data

(4 marks)

6. a) Given that coordinates of ΔPQR are P (3, 1), Q (1, 2) and C (3, 5). Calculate the coordinate of the vertices of its image P'Q' and R' if the centre of enragement is (0.0) and scale factor is 3.

(3 marks)

(b) **Figure 4** is a diagram of a cylindrical flask of diameter 10cm and height 25cm which has hemispherical cup

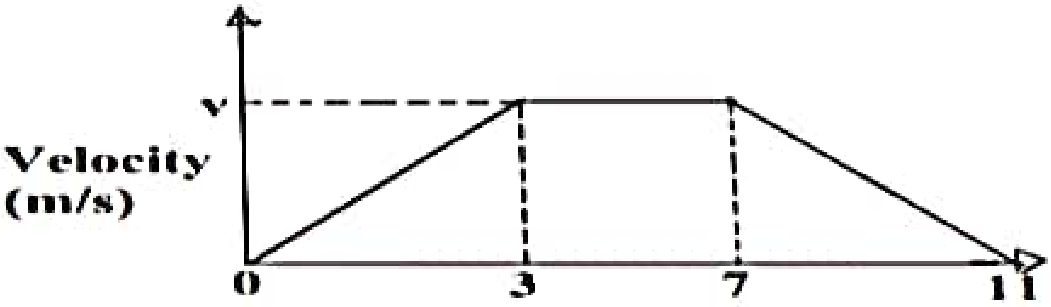
(4 marks)

(b) Solve the equation

$$\frac{5x+2}{x+1}=\frac{x+1}{x}$$

(5 marks)

5. a) **Figure 3** shows the speed-time graph of a moving object



If the total distance traveled by the object was 180m, calculate the speed V of the object

3. a) A chord of a circle of radius 15cm is 9cm away from the centre. calculate the length of the chord giving your answer correct to one decimal place

(5 marks)

(b) Given that

$$A=\begin{pmatrix}3 & 4\\ 1 & -2\end{pmatrix}\quad B=\begin{pmatrix}1 & 3\\ 6 & 1\end{pmatrix}\quad C=\begin{pmatrix}2 & 0\\ -1 & 4\end{pmatrix}$$

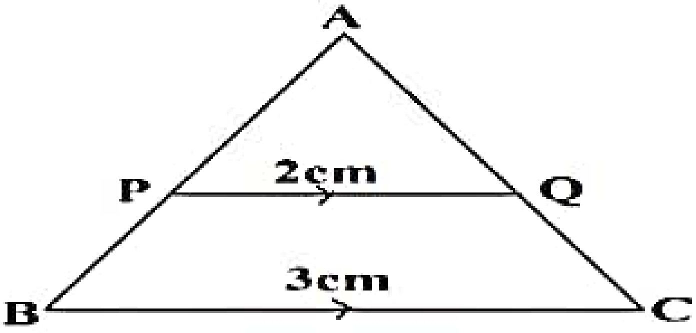
Find 2(AC - B)

(6 marks)

4. a) In order to be offered a place at Bunda College, a student must pass in three subjects: Mathematics, Agriculture and English. If Chimwemwe has probability of $\frac{1}{4}$ of failing Mathematics, $\frac{1}{3}$ of failing Agriculture and $\frac{3}{4}$ of failing English, calculate the probability that he would be offered a place at Bunda collage

(6 marks)

(b) **In figure 2** PQ=2cm, BC=3cm and the area of the trapezium PQCB=$10cm^2$.



If the value of the triangle APQ=x^2cm^2
Calculate the value x

(5 marks)

SECTION A (60 MARKS)

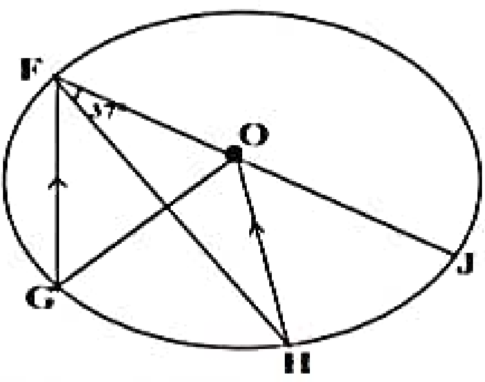
1. a) Simplify $\frac{3\sqrt{2}+1}{\sqrt{3}+\sqrt{6}}$ without using a four figure table or calculator

(6 marks)

(b) Solve the equation $2^{2x+1} - 2^{x+1}+1=2^x$

(5 marks)

2. a) **Fig 1** shows a circle FGHJ with centre O. FG is parallel to OH and FOJ is a diameter



If angle HFJ=37°, calculate angle GHF

EXAMINATION NO.: ________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Monday, 1st July

Time Allowed: 2 h 30 mins
8:00 – 10 : 30 am

PAPER I

(110 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

1. **This paper contains 14 printed pages. Please check.**
2. The paper has **Five** questions.
3. There are **two** sections, **A** and **B**.
4. Section **A** comprises **three** questions and candidates must answer all the **three** questions.
5. Section **B** comprises **two** questions and candidates must answer **one** question only.
6. Write your **Examination Number** on top of each page of the question paper.
7. In the table provided on this page **tick** against the number of the question you have answered.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

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Turn over

Section A (85 MARKS)

Answer all questions.

1. Study the **1:50,000** map extract of Nankumba sheet **1434/B4/D4** and answer the questions that follow.

a. (i) Give the six figure grid reference for the historic site.

____

(2 marks)

(ii) Identify the man made feature that is found at grid reference **064391.**

____

(1 mark)

b. (i) Measure the length of **S128** road on the map. Give the answer to the nearest kilometre.

____

(3 marks)

(ii) Identify **two** drainage patterns north of **Northing 41.**

____

____

(2 marks)

c. Find the bearing of the Rock from the trigonometric pillar **350/Mws**

____

(3 marks)

d. (i) Mention any **two** ways in which relief is represented on the map

____

____

(2 marks)

Continued/...

1 d. **(Continued)**

(ii) Describe the topography of the area north west of Nankumba.

____

____

____

(2 marks)

e Calculate the area covered by Lake Malawi west of **easting 02** between **easting 06** and **09**. Give your answer to the nearest kilometer. Show all your working. **(6 marks)**

f. (i) Mention any two land uses to the west of easting 06.

____

____

(2 marks)

(ii) State any **two** coastal landforms shown on the map.

____

____

(2 marks)

Continued/...

1 (Continued)

g. Reduce the map of Nankumba to twice its original size between eastings 01 to 07 and northing 38 to northing 45 on the graph paper provided below. **(4 marks)**

On the reduced map show the following:

(i) New scale **(2 marks)**

(ii) S128 road **(2 marks)**

(iii) Air field **(2 marks)**

Continued/...

2. a. **Figure 1** is a diagram showing the internal structure of the earth . Use it to answer questions (i) and (ii).

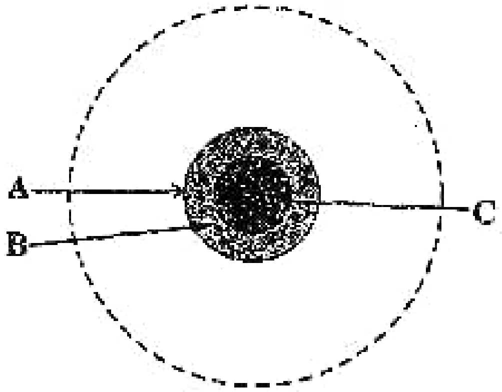

Figure1

(i) Name the parts labelled A and C

A : ______________________________ (1 mark)

C: ______________________________ (1 mark)

(ii) State any **two** characteristics of the part labelled B.

____

______________________________ (2 marks)

b. (i) Name any **two** continents that were part of Gondwanaland during early stages of continental drift.

____

______________________________ (2 marks)

(ii) Explain any **two** weaknesses of the continental drift theory.

____

____

____

______________________________ (4 marks)

Continued/...

2 **(Continued)**

c. **Figure 2** is a map of the world showing the tectonic plates. Use it to answer questions **(i)**, **(ii)** and **(iii)**.

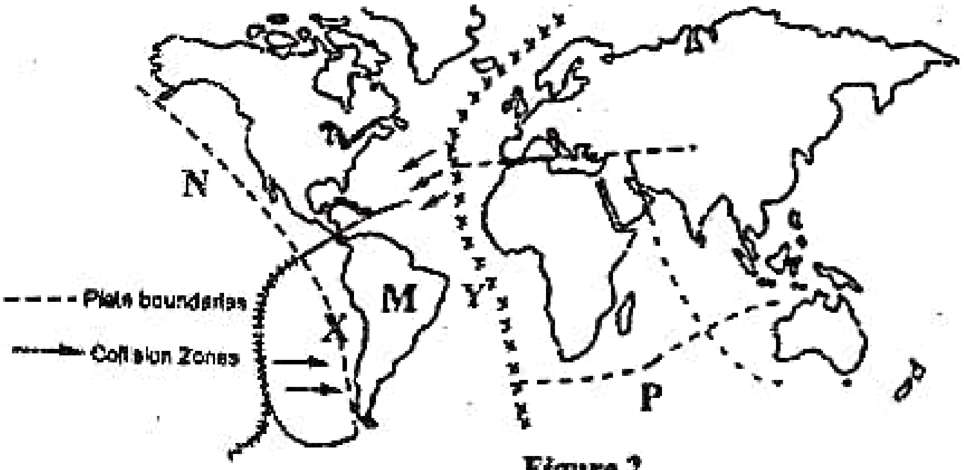

Figure 2

(i) Name the plates labelled **N** and **P**.

N: ____ **(1 mark)**

P: ____ **(1 mark)**

(ii) Mention any two features that can be developed along plate boundary **X**.

____

____ **(2 marks)**

(iii) Describe the process of the formation of ocean ridges along plate boundary **Y.**

____

____

____

____ **(2 marks)**

Continued/...

2 (Continued)

d. (i) With the aid of a well labelled diagram, describe a reverse fault.

(4 marks)

(ii) Give any **two** examples of Block mountains in Africa.

(2 marks)

(iii) List any **three** characteristics of Block mountains.

(3 marks)

3. a. Figure 3 is a photograph showing a type of pollution. Use it to answer questions **(i)**, **(ii)** and **(iii)**.

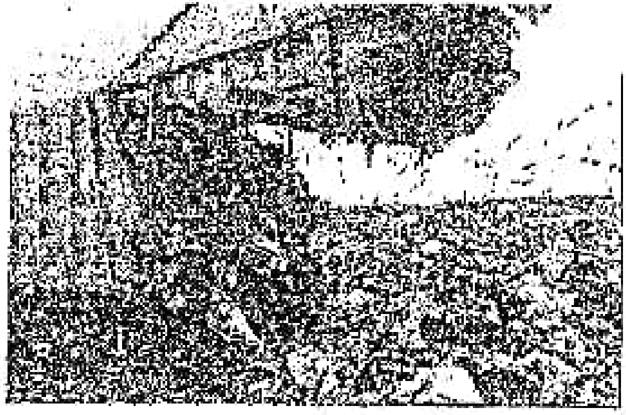

Figure 3

Continued/…

3. a (Continued)

(i) Mention the type of pollution.

____

(1 mark)

(ii) Explain any **two** ways in which the pollution in the photograph is caused.

____

____

____

____

(4 marks)

(iii) Describe any **two** harmful effects of this type of pollution.

____

____

____

____

(4 marks)

b (i) What is the difference between "natural disasters" and "natural hazards"?

____

____

(2 marks)

(ii) Mention any **two** natural disasters which **commonly** occur in Malawi.

____

____

(2 marks)

c. (i) Explain any **two** causes of desertification in Malawi.

____

____

____

____

(4 marks)

Continued/...

3. c (Continued)

(ii) Mention any two measures for controlling desertification.

____

____

(2marks)

d. (i) Define the term "continental shelf".

____

____

(2 marks)

(ii) Explain any two ways in which the continental shelf is important.

____

____

____

____

(4 marks)

SECTION B (25 MARKS)

Answer only one question in this section.

4. a Figure 4 is a diagram showing the layers of the atmosphere. Use it to answer questions (i), (ii) and (iii).

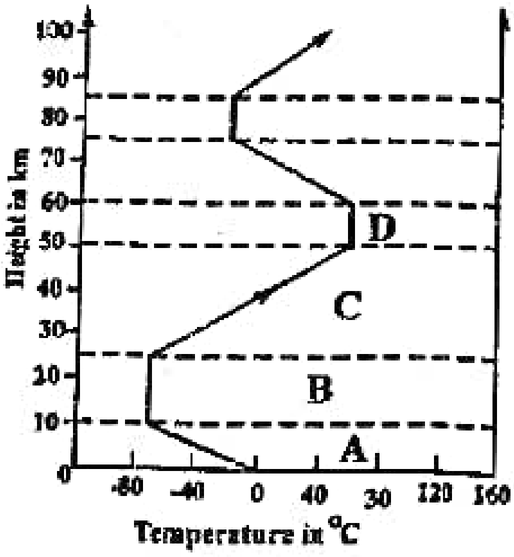

Figure 4

Continued/...

12

EXAMINATION NO.: ______________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/II

Tuesday, 25 June

Time Allowed: 1 h 45 mins
2:00 – 3:45 pm

PAPER II

(60 marks)

Instructions

1. **This paper contains 10 printed pages. Please check.**
2. This paper has **two** sections: A and B.
3. Answer **all** questions in **both** sections.
4. Use the spaces provided to answer questions in this paper.
5. Follow the instructions for each section carefully.
6. Fill in your **Examination Number** at the top of each page of the question paper.
7. In the table provided on this page, tick against the question number you have answered.

Question Number	Tick Questions 1 & 2 if answered	Do not write in these columns	
1			
2			

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2. (Continued)

Though he knew he was trespassing, Limbani walked boldly down the centre of the glade, following the wild pig tracks. A sudden movement among the trees down the area caught his eye and he turned his head. A youth, wearing a *Ngoni* loin cloth similar to his own, and carrying a bow, came out from behind *Mkungudza* tree right in Limbani's path. The youth fixed an arrow to his bow, drew the string back to his ear, and aimed the arrow at Limbani's chest. Limbani stopped. The youth was smaller than Limbani. Though smaller, he was a year or so older and his eyes were hard and fierce, like those of the snake eagle.

"Who are you? Did you not see the mark on the tree at the top of the hill? Move a step further before my arrow digs your heart".

(Adapted from: **Prose and Poetry Unseens** by Rosina Umelo, *pp 1 - 2*)

Questions

a. During which season of the year did Limbani leave the cave for hunting?

____

(1 mark)

b. What **two** things show that Limbani is determined enough to kill the wild pigs?

____

____

(2 marks)

c. Why could it be difficult for people to see the tracks of the wild pigs?

____

____

(2 marks)

Continued/...

syndrome when he or she wants to make some important decisions. It also leads to low performance of tasks as there is a belief that a colleague will do it for him or her. For example one fails to do his or her homework since he or she is engaged in trivial things.

Discrimination also leads to low-self esteem. Thus one is denied an opportunity just because of religion or colour of skin. There are reasons why discrimination exists. One of them is selfishness. Some groups of people discriminate against others because they think that they are superior to them. The other reason is ignorance of human rights. Some people are unaware that human rights ought to be enjoyed equally by all regardless of any other factors. Research on human rights indicates that more than fifty per cent of people are being discriminated against on the basis that the culprit was unaware of what he or she was doing. This is a blue lie. Some groups of people give more respect to culture than the dignity of a fellow human being. An illustration can be when some cultures consider men as being more important than women. This is very unfair.

Lastly, people have low self-esteem because of their physical appearance. Some people believe that they are less important because of something they do not like about themselves. For example, being shorter than most of one's peers, being unattractive, having abnormal height, being obese or being too thin. However, this is not an issue for a person to be worried about. Physical appearance can be improved by developing a positive self-image. One should be satisfied with the way he or she was created. Natural beauty is better than artificial one. The other way of counteracting the issue of physical appearance is to improve one's achievements. Focus should be on ambitions and not on a person. People get attracted in most cases to what one has achieved and not how one looks.

Continued/...

In conclusion, low self-esteem should not be taken for granted when one develops it. It is advisable to avert it with proper rapid response to avoid some repercussions.

(Adapted from "Rise with Life Skills" *by S.M.J. Mandauka***)**

Continued/…

Continued/…

Section B (40 marks)

Comprehension

2. **Read the following passage carefully and answer all the questions that follow.**

No rain had fallen for months and the sun was scorching hot when Limbani left the cave one afternoon for hunting. He crossed the winding stream, now reduced to a mere trickle that flowed in front of the cave, and headed towards the massive forest. He climbed a long hill, following the trail of a small herd of wild pigs that was making for the river.

The ground was iron-hard due to drought and the tracks would have been invisible to most people. But Limbani had no difficulty in following the herd. To his keen hunting eyes, the trail was as plain as if it had been sign-posted all the way.

On the crest of the hill stood a tree which had a conspicuous red mark, indicating the boundary of Limbani's clan and that of Mafuta. The mark was inside the thick forest. It was a strict law among the Mafutas that the marks were to be respected at all times, and that no one must trespass the territory of another clan. Today, Limbani broke this law for the first time in his life. He crossed the invisible boundary line and went downhill after the herd of wild pigs.

A close study of the tracks had shown him that the herd was being led by a pig of great size. Or could he, at last, be on the trail of his enemy? At the foot of the hill, a narrow area of only grass ran through the forest down to the river.

Continued/...

2. **(Continued)**

Though he knew he was trespassing, Limbani walked boldly down the centre of the glade, following the wild pig tracks. A sudden movement among the trees down the area caught his eye and he turned his head. A youth, wearing a *Ngoni* loin cloth similar to his own, and carrying a bow, came out from behind *Mkungudza* tree right in Limbani's path. The youth fixed an arrow to his bow, drew the string back to his ear, and aimed the arrow at Limbani's chest. Limbani stopped. The youth was smaller than Limbani. Though smaller, he was a year or so older and his eyes were hard and fierce, like those of the snake eagle.

"Who are you? Did you not see the mark on the tree at the top of the hill? Move a step further before my arrow digs your heart".

(Adapted from: **Prose and Poetry Unseens** by Rosina Umelo, *pp 1 - 2*)

Questions

a. During which season of the year did Limbani leave the cave for hunting?

____

(1 mark)

b. What two things show that Limbani is determined enough to kill the wild pigs?

____

____

(2 marks)

c. Why could it be difficult for people to see the tracks of the wild pigs?

____

____

(2 marks)

Continued/...

2. (Continued)

d. Describe the character of each of the following:

(i) Limbani ______________________________

______________________________ **(2 marks)**

(i) the youth ______________________________

______________________________ **(2 marks)**

e. What made Limbani walk boldly even though he knew that he was trespassing?

____

______________________________ **(2 marks)**

f. What made Limbani think he could be on the trail of his enemy?

____

______________________________ **(2 marks)**

g. Why did Limbani not respond to the youth's question, "Did you not see the mark on the tree at the top of the hill"?

____

______________________________ **(2 marks)**

h. What shows that the youth knows the laws of his clan?

____

____

______________________________ **(2 marks)**

Continued/...

2. **(Continued)**

i. Give the meaning of each of the following words as used in the passage:

(i) 'scorching' **(paragraph 1)** ______________________ **(1 mark)**

(ii) 'crest' **(paragraph 3)** ______________________ **(1 mark)**

(iii) 'hard'**(paragraph 5)** ______________________ **(1 mark)**

j. Explain the meaning of each of the following words as used in the passage:

(i) 'iron-hand' **(paragraph 2)** ______________________

______________________ **(2 marks)**

(ii) 'caught his eyes' **(paragraph 5)** ______________________

______________________ **(2 marks)**

(iii) 'digs your heart' **(paragraph 6)** ______________________

______________________ **(2 marks)**

k. Who was wrong between Limbani and the youth? Justify your answer?

____

____

______________________ **(2 marks)**

l. Give a title for the passage.

______________________ **(2 marks)**

Continued/...

2. (Continued)

m. Summarise the passage in your own words. The summary should be between 70 and 100 words.

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(10 marks)

END OF QUESTION PAPER

NB: This paper contains 10 printed pages.

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

ENGLISH

Subject Number: M052/III

Thursday, 27 June

Time Allowed: 2 hours
2:00 – 4:00 pm

PAPER III
(70 marks)

Instructions

1. **This paper contains 11 printed pages. Please check.**
2. This paper has two sections.
   a. Section A contains two compulsory contextual questions. Therefore, you are required to answer both questions in this section in the spaces provided.
   b. **Section B** comprises essay questions. Answer one question on each book on the lined answer sheets on pages **9 to 12.**
3. You should spend the first **10 minutes** reading all the questions and planning your answers to the questions you choose.
4. Fill in your **Examination Number** at the top of each page of the question paper.
5. In the table provided on this page, tick **against the question number you have** answered.

Question Number	Tick if answered	Do not write in these columns		Marker's name
1				
2				
3				
4				

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Turn over/…

Section A (30 marks)

Answer both questions

1. **POEM**

Sweet Brew at Chitakale

The old woman squats before a clay jar of Thobwa
She uncovers the basket lid from the pregnant jar and
Stirs attention with a gourdful of the brew

The customers have all been here; cyclists
In dripping sweat have deposited their coins
Like players in a poker game
In the basket gulping down their share
For the game that seemed so fair

Pedestrians on various chores have talked
Before the exchange and then cooled their
Parched throats to their money's worth

But this bus passenger bellows for a gourdful
From the window, drinks deliberately slowly
As if he is a chameleon, until
The conductor presses the go-button

The woman picks up the pieces of her broken
Gourd and dusting her bottom, again squats
Confronting her brew with a borrowed cup

(Slightly adapted from: *Of Chameleon and Gods* by Jack Mapanje)

Continued/…

1. (Continued)

Questions

a. Who is the persona in the poem?

____ **(1 mark)**

b. Describe the character of each of the following individuals in the poem:

(i) the old woman

____

____ **(2 marks)**

(ii) the passenger in the bus

____

____ **(2 marks)**

c. What figure of speech is depicted by the expression "from the pregnant jar"?

____ **(1 mark)**

d. Pick out any **two** similes from the poem.

____

____ **(2 marks)**

e. (i) What is the geographical setting of the poem?

____ **(1mark)**

(ii) Justify your answer to **e (i)** above.

____

____ **(2 marks)**

f. Describe any **two** themes portrayed in the poem.

(i) ____ **(2 marks)**

(ii) ____ **(2 marks)**

Continued/...

2. SHORT STORY

Read the passage carefully and answer the questions that follow.

THE WITCH

It was after several days that the gong-gong was beaten in the late afternoon and the whole town was called to assemble outside the chief's house. The crowd was large and I climbed up a very high tree and seated in the swaying branches; I watched the whole scene.

The chief emerged. He was a middle-aged man dressed in glowing *kente* cloth, gold crown on his head and sandles. He was accompanied by his horn blower and interpreter bearing his staff of office and elders of the town. A small boy of my own age carried the royal stool and another walked in front of the chief, acknowledging on his behalf the greetings from the crowd. The chief and his party sat down.

Then came the fetish priest, tall, naked to the waist and his assistants. Some of these were children too. Little girls in white skirts and their bodies smeared with white clay and covered with strings of white cowrie shells.

The priest stationed himself by an altar that had been set up in the compound and poured a libation to the god asking that the truth might be revealed.

Another group then came from the chief's house and in the center of it were three women. Their clothes were torn and they stumbled and wept. Obviously they had been roughly treated. Two were old and ugly. The other was about my mother's age, plump and comely. They were the occupants of Tona's coffin house.

Continued/…

2. (Continued)

They all denied that they had killed the girl. The crowd began to jeer them and threaten them. A few stones were thrown but the chief ordered the people to be still.

Three cocks were brought and given to the priest's assistants. The first old lady was brought before the altar and warned to speak the truth or the god would surely kill her. She threw herself on her knees and swore that she was not a witch. The priest took the first cock and with a sharp knife cut its throat half way across. Then he threw it on the ground. Amid a breathless silence the cock struggled to its feet, ran a few steps, collapsed and died on its back, its breast uppermost. The crowd roared. The god had accepted the woman's answer. She had spoken the truth. She was innocent and free. She fell sobbing on the ground until her friends came and helped her to her feet.

The second old woman was brought forward. She denied that she was a witch and the same ritual followed. Her cock too died on its back and the god acknowledged her innocence.

The crowd grew restless as the third woman was brought forward. An angry muttering prevented me from hearing what the woman answered. The priest took the cock in his hand but then paused and in a loud and stern voice, which silenced the crowd, cried; "Take care woman what you do! If you are guilty, the god will surely reveal it by killing you". The woman stood upright and looked proud and defiant. The priest took up his knife but before he had time to use it the woman fell to the ground her limbs twitching and foam coming from her mouth. The crowd roared. The priest put down the knife and let the cock flutter away. Then trembling, she confessed that she was a witch. She was strongly advised by the priest to confess all her crimes.

Continued/...

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

CHEMISTRY

Subject Number: M038/I

Thursday, 27 June

Time Allowed: (2 hours)
8:00 – 10:00 am

PAPER I

THEORY

(100 marks)

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. Fill in your Examination Number at the top of each page.
3. This paper contains two sections, A and B. In Section A there are ten short answer questions while in Section B there are three restricted essay questions.
4. Answer all the **thirteen** questions in the spaces provided.
5. Use of electronic calculators is allowed.
6. The maximum number of marks for each answer is indicated against each question.
7. In the table provided on this page, tick against the number of the question you have answered.

Question Number	Tick if answered	Do not write in these columns	
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Turn over

Section A (70 marks)

Answer all the questions in this section.

1. a. State the difference between "accuracy" and "precision".

____

____

____

____ **(2 marks)**

b. **Figure 1** is a diagram of a container with molecular models in various positions. The models are supposed to be at the centre of the container.

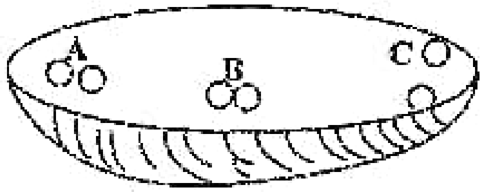


Figure 1

Using letters **A**, **B** and **C**, identify the molecular models that have-

(i) good precision but poor accuracy

____ **(1 mark)**

(ii) both poor precision and accuracy

____ **(1 mark)**

(iii) both good precision and accuracy.

____ **(1 mark)**

c. In an experiment, 136g of gaseous ammonia (NH_3) reacted with excess oxygen (O_2) to produce nitric acid (HNO_3) and water (H_2O).

(i) Write a balanced equation for the reaction.

(3 marks)

Continued/…

1c. (continued)

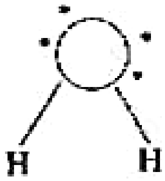
(ii) How much nitric acid (HNO_3) could be produced from this reaction? (RAM: N=14, H = 1, O = 16)

(3 marks)

2. a. Work out the number of nitrogen atoms in 8 molecules of urea $CO(NH_2)_2$.

(2 marks)

b. Complete the equation and label the dative bond.



+ $H^+ \longrightarrow$ ____________________

(2 marks)

c. Explain each of the following statements.

(i) Ionic compounds are soluble in water.

____

____

____

(3 marks)

(ii) Graphite conducts electricity.

____

____

____

____

(3 marks)

Continued/…

2. (continued)

d. Explain how a polar bond is formed.

(4 marks)

3. a. Give any **one** use of electron configuration.

(1 mark)

b. (i) Why is nitrogen gas inert at room temperature?

(2 marks)

(ii) Explain any **one** way in which inertness of nitrogen is important.

(3 marks)

Continued/...

3. **(Continued)**

c. The Table below shows electron configuration and relative abundance of isotopes of an element.

Isotope	Electron configuration	Relative Abundance
X – 28	2 – 8 – 4	$\frac{8}{10}$
X – 29	2 – 8 – 4	$\frac{1}{10}$
X – 30	2 – 8 – 4	$\frac{1}{10}$

(i) To which group of the periodic table does element X belong?

____

(1 mark)

(ii) Element X reacts with element Y whose valency is 2.
Write the chemical formula of the product.

(2 marks)

4. a. A hydrocarbon contains 85.7% carbon and 14.3% hydrogen by mass. Write the molecular formula of the hydrocarbon if its relative formula mass is 56. (RAM: C=12, H=1)

(7marks)

Continued/...

4. (continued)

b. Why is burning of plastics not recommended as a method of disposal?

____

____

____

(2 marks)

5. **Figure 2** is a graph showing results of experiments **A** and **B** on one of the factors affecting rate of reaction.

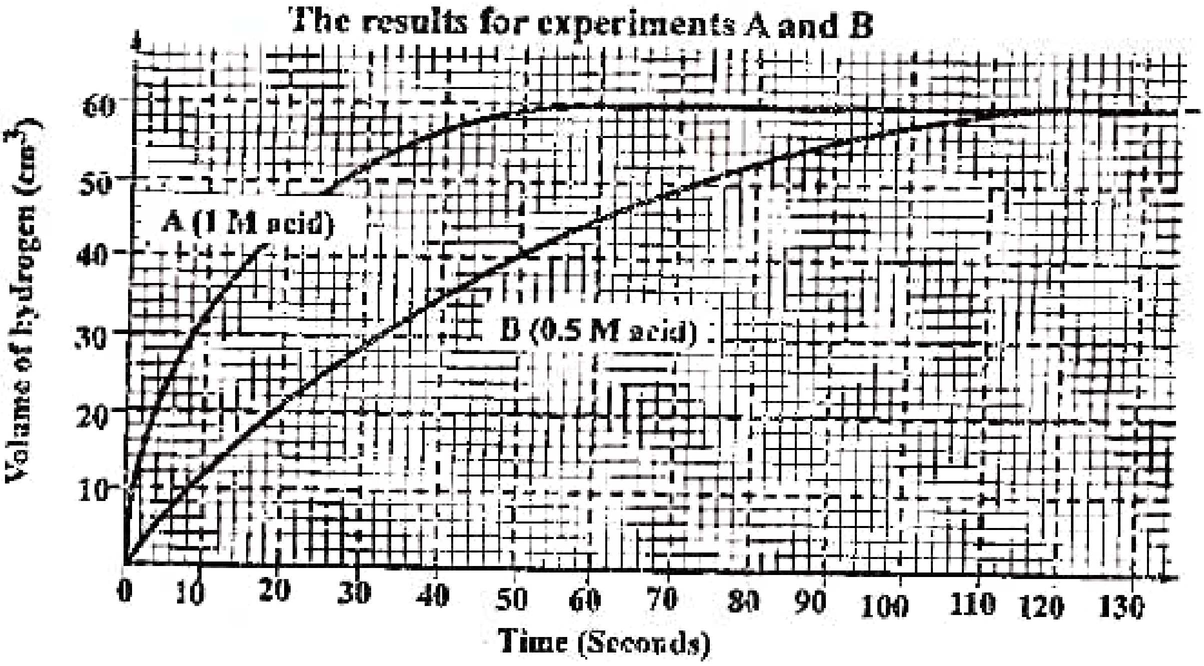


Figure 2

Adapted from Complete Chemistry by Rose pp 122

a. State the factor affecting the rate of reaction which was being investigated.

____

____

(1 mark)

b. Which reaction is faster than the other?

____

(1 mark)

c. Give a reason for the answer in 5.b.

____

____

(1 mark)

Continued/...

13. With the aid of a well labelled diagram, describe how copper can be refined using electrolysis. In your description, include half equations at the cathode and anode.

(10 marks)

END OF QUESTION PAPER

NB: This paper contains 12 printed pages.

12. Describe the process of soap making.

(10 marks)

Continued/..

SECTION B (30 marks)

Answer all the questions in this section.

11. a. Why is the boiling point of hexanoic acid **higher** than that of hexanol?

(3 marks)

b. With the aid of chemical equations, explain how ozone layer is depleted.

(7 marks)

Continued/...

9. a. Why is argon gas obtained before oxygen gas during separation of air into its component gases?

(1 mark)

b. Describe how carbon dioxide is removed from air.

(2 marks)

10. a. Mention any one type of wastes based on degradability.

(1 mark)

b. Explain how burning of fuel causes global warming.

(2 marks)

Continued/…

7. (Continued)

c. Give a reason for the answer in 7(b).

(2 marks)

8. a. Ethene (C_2H_4) and water (H_2O) react to form ethanol (C_2H_5OH) according to the following chemical equation.

$$C_2H_4 + H_2O \xrightleftharpoons{H_2SO_4} C_2H_5OH$$

(i) Name the type of reaction in the equation.

(1 mark)

(ii) Give the function of H_2SO_4 in the reaction.

(1 mark)

b. (i) Complete the following equation:

$$C_2H_5OH \xrightarrow{Cr_2O_7^{2-}} \text{-----------} + \text{-----------}$$

(2 marks)

(ii) What is the function of $Cr_2O_7^{2-}$ in the reaction?

(1 mark)

(iii) Name the products in the equation.

(2 marks)

Continued/...

4. (continued)

b. Why is burning of plastics **not** recommended as a method of disposal?

(2 marks)

5. **Figure 2** is a graph showing results of experiments **A** and **B** on one of the factors affecting rate of reaction.

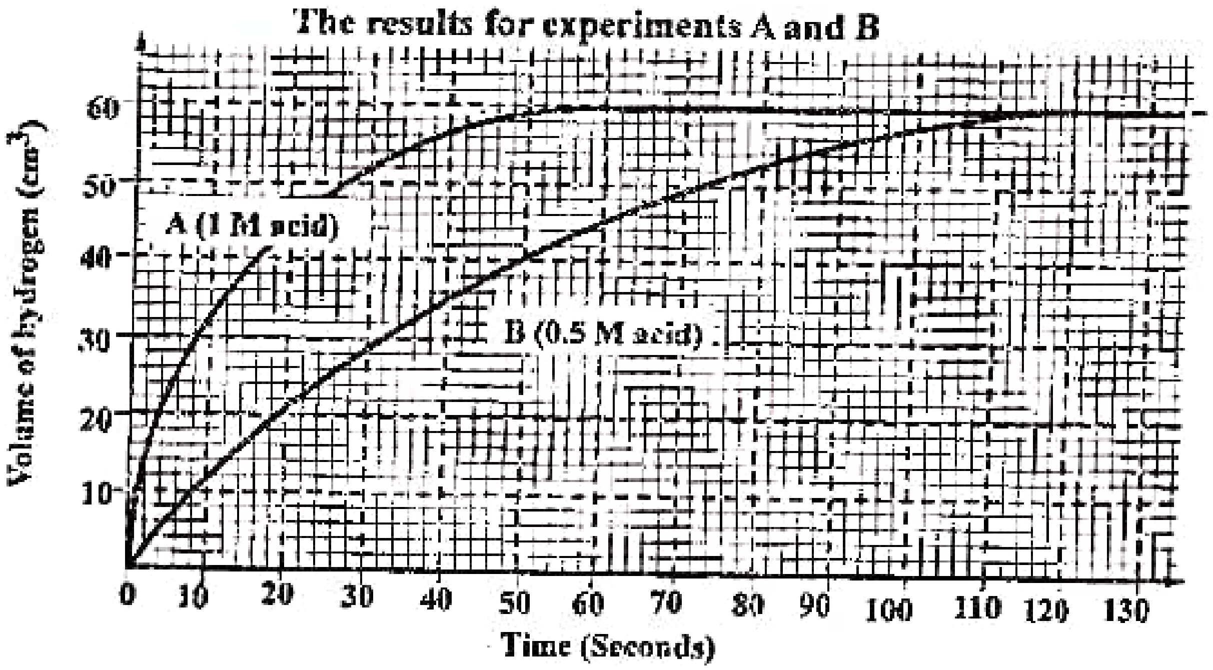


Figure 2

Adapted from Complete Chemistry by Rose pp 122

a. State the factor affecting the rate of reaction which was being investigated.

(1 mark)

b. Which reaction is faster than the other?

(1 mark)

c. Give a reason for the answer in 5.b.

(1 mark)

Continued/...

EXAMINATION NO.: ____________________

THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

AGRICULTURE

(100 marks)

Subject Number: M012/I

Monday, 24 June

Time Allowed: 2 hours
8:00 – 10:00 am

PAPER I

Instructions

1. **This paper contains 12 printed pages. Please check.**
2. This paper has two sections, **A** and **B**. Section **A** has ten questions and Section **B**, three questions.
3. Answer **all** questions in the spaces provided.
4. Write your **Examination Number** on all pages.
5. At the end of the examination, hand in your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
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Section A (70 marks)

Answer **all** the questions in the spaces provided in this section.

1. a. State any **two** ways in which supplying is important in crop production.

(2 marks)

b. Describe any **one** way of achieving the following in maize production:

(i) Selfing of parents

(2 marks)

(ii) Cross – pollinating of in- bred lines

(2 marks)

c. Explain any **two** ways in which living organisms help to maintain plant nutrients in the soil.

(4 marks)

Continued/...

1. (Continued)

d. Name any two materials used as substrates in mushroom production.

____

____

(2 marks)

2. a Explain any one way in which each of the following farming technologies would improve food security:

(i) Irrigation

____

____

____

____

(2 marks)

(ii) Pest and disease management

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____

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(2 marks)

b Explain any two ways in which use of animal power increases food supply in Malawi.

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(4 marks)

3 a State any one way of controlling scales in a mango orchard.

____

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(1 mark)

Continued/...

3. (Continued)

b. Using a well labelled diagram illustrate a **three** tire marketing channel.

(3 marks)

c. Calculate the number of maize seeds that will be needed for 3 hectares of land given that 3 seeds are planted per station. The distance between ridges and planting station is 0.9 metres.

(2 marks)

d. If a farmer planted 800 seeds in his field and only 200 seeds germinated, calculate the germination percentage.

(2 marks)

Continued/...

4. **Figure 1** is a diagram showing a product of a human activity.

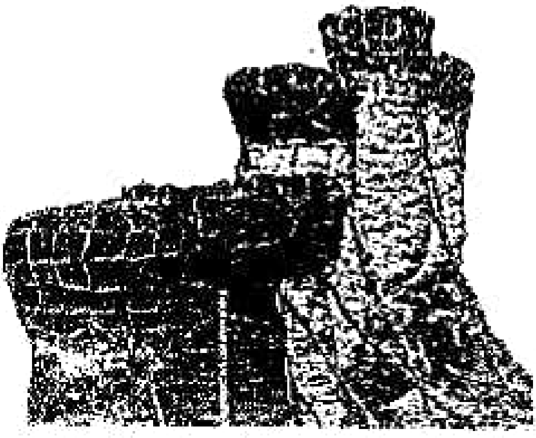

Figure 1

a. Give any **two** negative effects of the human activity on the environment.

(2 marks)

b. Explain any **two** ways of overcoming the impact of the human activity on agricultural production.

(4 marks)

Continued/...

5. a In Mchere village the prices of maize were very high but the demand did not change.

(i) Name the degree of demand for maize in Mchere village.

____

(1 mark)

(ii) Give a reason for the answer in 5 a (i).

____

____

____

(2 marks)

b. State any two ways in which elasticity of demand is important.

____

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____

____

(2 marks)

c. State any **one** way of improving output from each of the following sources of farm power:

(i) Drought animals

____

____

____

(1 mark)

(ii) Solar

____

____

____

(1 mark)

Continued/...

6. a. Explain any **one** way in which knowledge of "signs of heat" in a cow is important to a farmer.

____

____

____

____

(2 marks)

b. Name **two** diseases which cause lameness in sheep.

____

____

(2 marks)

7. a. State any **two** agricultural development agencies which provide credit Services in Malawi.

____

____

(2 marks)

b. Describe the first **two** stages in the scientific approach to agricultural research.

____

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(4 marks)

8. a. State any **three** conditions for getting a loan from commercial banks.

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(3 marks)

Continued/...

13. Explain any five factors to consider when feeding poultry.

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____ **(10 marks)**

END OF QUESTION PAPER

This paper contains 12 printed pages.